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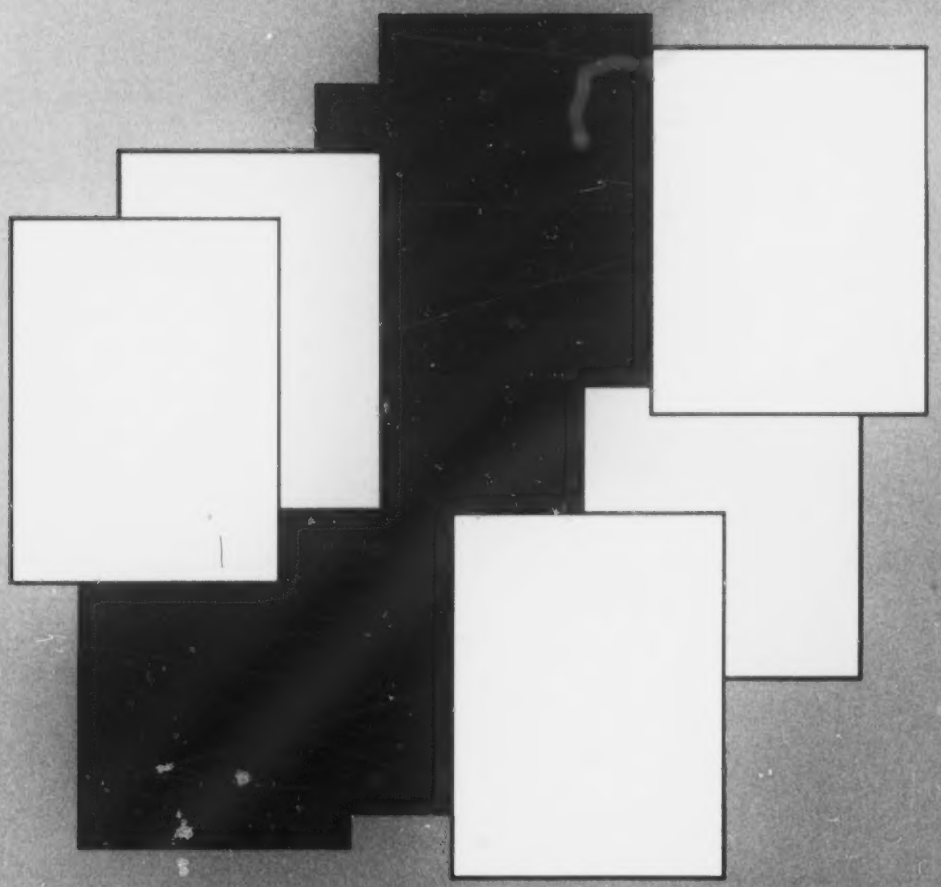
VITAL STATISTICS



WISCONSIN

1988

VITAL STATISTICS 1988

Wisconsin Department of Health and Social Services,
Division of Health, Center for Health Statistics

April 1990

FOREWORD

The Center for Health Statistics of the Wisconsin Division of Health, Department of Health and Social Services, is charged by law with the dual responsibility to maintain an effective system of vital registration and to make vital statistics available to public and private agencies and to the public. This report contains statistical summaries of vital events in Wisconsin, including births, deaths, fetal deaths, marriages, and divorces. Events reported for the year 1988 and filed before April 1, 1989 are included in this report. In addition to vital events occurring in Wisconsin, the Center for Health Statistics collects data from birth certificates for children born outside Wisconsin to mothers who reside in Wisconsin, and death certificate data for Wisconsin residents who die outside the state. These events are also included in this report.

This publication is intended for use as a convenient reference for vital statistics. It presents frequently used tabulations but does not contain analytical interpretations. The Center for Health Statistics publishes more detailed analyses of selected vital events data. Topics include maternal and child health; cancer; deaths from accidents, poisoning, and violence; and marriage and divorce. Tabulations of unpublished data as well as other published reports are available upon request.

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WISCONSIN COUNTIES

SUMMARY OF 1988 WISCONSIN VITAL STATISTICS REPORT

The 1988 population estimate for Wisconsin of 4,855,000 persons represents an increase of 149,233 over the 1980 Census, reflecting an average annual increase of approximately 18,000.

Throughout the 1980s, Wisconsin has had a relatively stable natural increase (births minus deaths) ranging from 27,000 to 34,000 annually.

From 1980 through 1988 Wisconsin experienced a small net out-migration (total increase minus natural increase) of population averaging about 14,000 persons annually; however, this fluctuated considerably from year to year ranging from a net out-migration of 32,000 in 1983 to a net in-migration of 21,000 in 1988.

There were 70,711 live births in Wisconsin in 1988, yielding a birth rate of 14.6 per 1,000 population. This is the lowest birth rate since 1976.

From 1987 to 1988 births to white mothers declined nearly one percent to 62,211. Births to minority group mothers, i.e., black, American Indian and other (largely Asian), rose six percent, to 8,499, or 12 percent of all births in 1988.

There were 2,455 births to mothers below age 18 in 1988. By race, the percentage of such births was lowest for whites, 2.3 percent (1,400 births) and highest for blacks, 14.9 percent (942 births).

Infant mortality rates for blacks, American Indians, and other nonwhites were essentially double the rate for the white population (17.1 infant deaths per 1,000 live births compared to 7.3). This difference has been relatively unchanged in recent years.

Male death rates exceeded female death rates for all age groups in 1988.

Leading causes of death by age group generally show similar patterns from year to year. Accidental death (unintentional injury) predominates from about age 1 through age 35, with rates being about three times higher for males than females. From age 35 to 70, heart disease is the leading cause of death for males and cancer for females. After age 70, heart disease leads for both males and females, followed by cancer and stroke.

The number of marriages occurring in Wisconsin increased from 37,647 in 1987 to 41,445 in 1988, the highest number of marriages ever reported in Wisconsin. This increase is most likely due to Illinois residents coming to Wisconsin to be married in order to avoid the Illinois law requiring mandatory premarital HIV antibody (AIDS) testing. (The law has been repealed.)

Divorces and annulments in Wisconsin in 1988 totalled 17,127, an increase of approximately one percent from the 16,923 recorded in 1987.

WISCONSIN VITAL STATISTICS REGISTRATION SYSTEM

Description: The vital statistics registration system depends upon the cooperation of many Wisconsin institutions, professionals and government offices. Vital statistics would not be available without this cooperative effort. The registration system is organized as follows:

Each county is a primary registration district for vital events for the rural areas, villages and towns. According to Wisconsin law, the office of the register of deeds is the place for filing birth, death and marriage records from these areas. In addition, cities, as defined by Wisconsin Statutes, may also serve as primary registration districts for births and deaths with the local health officer serving as the local registrar. Cities have the option of turning the function over to the county register of deeds. Copies of the original records are maintained in the local offices and the original record is forwarded to the Wisconsin Center for Health Statistics, Section of Vital Statistics.

Hospital administrators have legal responsibility for preparation and filing of birth records and fetal death reports for all deliveries occurring within or en route to a hospital. Because nearly all births occur in hospitals, most of the information obtained on the birth certificate is recorded by hospital personnel. Legal responsibility for filing records for nonhospital births lies with the person attending the birth. This may be a physician but is usually a midwife or family member.

Funeral directors (or person acting as such) have legal responsibility for obtaining information on death certificates and for filing the records with the local registrar. The physician in attendance, coroner or medical examiner is responsible for certifying the cause of death and medical information on the certificate.

Applications for marriage licenses are made in the office of the county clerk. The marriage certificate is completed by the civil or religious officiant. The officiant has the responsibility of forwarding the original certificate to the register of deeds.

Locally, the divorce certificate is the responsibility of the clerk of court where the divorce decree is granted. The county clerk of court retains the records of the court, has the necessary information transcribed on the divorce certificate, and forwards it to the Section of Vital Statistics.

The Section of Vital Statistics maintains a permanent repository for original records of birth, death, marriage and divorce.

THE WISCONSIN VITAL STATISTICS REGISTRATION SYSTEM

RECORD	PERSONS RESPONSIBLE FOR COMPLETING RECORDS	PERSONS RESPONSIBLE FOR FILING RECORD WITH REGISTRAR	REGISTRARS TRANSMIT RECORDS TO STATE REGISTRAR
Birth Certificate	Hospital Administrator for hospital births. For non-hospital births, the party attending birth or, if none, the parents.	Hospital Administrator or other party who completed the record.	Register of Deeds of each county is local registrar for most counties. The City Health Officer is local registrar for six cities approved for vital records functions. Cities transmit records to the Register of Deeds.
Report of Fetal Death	Hospital Administrator for hospital deliveries. Otherwise the Funeral Director or other person designated by parents.	Hospital Administrator or party who completed the record.	Same as above.
Death Certificate	Funeral Director for completion of personal and statistical information. Physician, Coroner, or Medical Examiner for causes of death, interval between onset and death, day and hour of death certification.	Funeral Director after filing report of final disposition and within 8 days of death.	Same as above.
	When no funeral director is employed, the person who prepares the body for burial and conducts the funeral or any member of the immediate family. Physician, Coroner or Medical Examiner for causes of death, interval between onset and death, day and hour of death certification.	Person designated to perform the burial and conduct the funeral.	Same as above.
Marriage Certificate	Persons applying for marriage license and the county clerk who issues the license.	Minister, priest, judge, family court commissioner, court commissioner or the 2 parties themselves, after completion of the certification and signing by 2 competent adult witnesses.	Register of Deeds of each county.
Certificate of Divorce	Attorney for the petitioner, family court commissioner and clerk of court.	Clerk of Court	Not filed locally.

POPULATION CHARACTERISTICS

POPULATION CHARACTERISTICS

The vital events tabulated in this report could not be interpreted for public health use without knowledge of the overall population in which the events occurred. This section is intended to provide some context for the analysis and interpretation of vital statistics. The population estimates that appear in this report (Tables P 1.1 through P 1.5) are also used in calculating the rates found in subsequent tables.

Age-Sex Distribution: The detailed age-sex distribution (Table P 1.4) is first generated by a Composite Method[1] utilizing live births and deaths for the United States and for Wisconsin in both a base period (here 1979-1981) and in the estimate year (1988), along with Census population tables and a current estimate for U.S. population. National rate changes from the base period to the estimate year are used to update Wisconsin age-sex specific rates to the estimate year. The number of births or deaths is then divided by the estimated rates to produce the population estimates. The estimates are next used, along with Wisconsin deaths, to produce the abridged life table (Table P 1.5) by means of the Reed-Merrell Method.[2] County estimates (Tables P 1.1 and P 1.3) are derived from the state estimate using Censal Ratio[3] estimators based on resident births, deaths and motor vehicle registrations.

Recent Growth: The July 1, 1988 estimate of Wisconsin population is 4,855,000; this represents total growth of over 149,000 in the eight and a quarter years since the 1980 Decennial Census. This is an annual average of 18,000 per year. Two forces affect this overall growth, natural increase and the net effect of in-migration and out-migration (Table P 1.2).

Natural Increase: Natural increase has been relatively stable during this decade (Figure 1), varying in the range of 27,000 to 34,000 year to year. Altogether, 656,992 persons were born and 370,365 died, for a total natural increase of 286,627 and an average of 31,847 per year.

Migration: Subtracting natural increase from the total increase reveals a net out-migration of 111,000 from 1980 to 1988. Two observations should be noted:

1. While the annual average out-migration was 14,000, it is clear that for some years the number was much higher, perhaps approaching 35,000, while in other years there was a net in-migration.
2. The net out-migration over these eight and a quarter years has, in effect, consumed nearly 40 percent of our natural increase.

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[1]Donald J. Bogue and Beverly Duncan, "A Composite Method for Estimating Postcensal Population of Small Areas by Age, Sex, and Color," reproduced in U.S. National Office of Vital Statistics, Vital Statistics-Special Reports 47(6), August 24, 1959.

[2]Lowell J. Reed and Margaret Merrell, "A Short Method for Constructing an Abridged Life Table." American Journal of Hygiene, 30(2):33-62, September 1939; reproduced in U.S. Bureau of the Census, Handbook of Statistical Methods for Demographers, 1951, pp. 12-27.

[3]Henry S. Shryock and Jacob S. Siegel, The Methods and Materials of Demography, U.S. Government Printing Office, Washington, DC, 1971, p. 752.

Growth Between Decades: Intercensal rates of population growth in Wisconsin have ranged during this century from 6.5 percent in the 1970s and 6.8 percent in the 1930s to 15.1 percent in the 1950s. The variation is largely accounted for by extremes of fertility. The population growth in the 1970s was smaller than in any decade since the 1930s. Live births were 110,000 fewer in the 1970s than in the 1960s and 156,000 fewer than in the 1950s. Deaths, on the other hand, were 50,000 more in the 1970s than the 1960s and 94,000 more than in the 1950s. Net out-migration was negligible in both the 1960s and 1970s after having been substantial from the 1930s through the 1950s. The economic downturn of the early 1980s caused substantial net out-migration in 1980 through 1985, amounting to perhaps 100,000. Subsequent years seem to have slowed this drain (Table P 1.2).

High Dependency Ages: The most useful population characteristics for vital statistics are age, sex, race and geographic distribution. The recent changes in age-sex distribution are graphically summarized in Figure 2. In the 1970s, the population under age 15 declined as a proportion of the total, from 30 percent in 1970 to 23 percent in 1980. In 1988 the proportion of population below age 15 was 21.8 percent. From 1980 to 1988, children below age 10 have increased while those ages 10-19 have decreased. During this same period, the very old (aged 85+) have increased substantially (by 29 percent).

The children of the baby boom now range in age from the mid-twenties to the early forties. The inter-war birth cohorts are now in their sixties and seventies. The pre-World War I generation are now over seventy. From 1.6 percent in 1900, the age 75 and older population increased its share of the total to 2.5 percent in 1940, 3.5 percent in 1960, 5.0 percent in 1980 and 5.9 percent in 1988 (Figure 3).

Race: In 1980, races other than white reached 5.6 percent of Wisconsin population, at 262,732 (Tables P 1.1 and P 1.4). Blacks made up nearly 70 percent of the nonwhite category, with 182,592. Spanish-origin population, who may be of any race, numbered 62,972. A special census of Milwaukee City in 1985 showed that while the total population in the city declined 3.9 percent, the black population rose 5.4 percent, to 154,813.

Sex Ratio: In most circumstances, the sex ratio (males per 100 females) changes only gradually. More males are live-born than females. At all ages, however, differential mortality produces greater female survivorship. By age 95 and older there are fewer than 30 males per 100 females (Table A). In Wisconsin, predominantly male immigration produced higher sex ratios in earlier censuses: in 1910, 107; in 1940, 104. That effect has disappeared in the 1980 population with a sex ratio of 96.

Table A
Estimated Number of Males and Females in Older Age Groups and Ratio of Males Per 100 Females, Wisconsin 1988

Age Group	Males	Females	Ratio
45-54	127,300	131,200	97
55-64	201,000	218,700	92
65-74	161,200	197,400	82
75-84	81,200	129,500	63
85-94	19,400	46,700	42
95+	1,300	4,400	30

Figure 1

WISCONSIN'S NATURAL INCREASE 1935–88

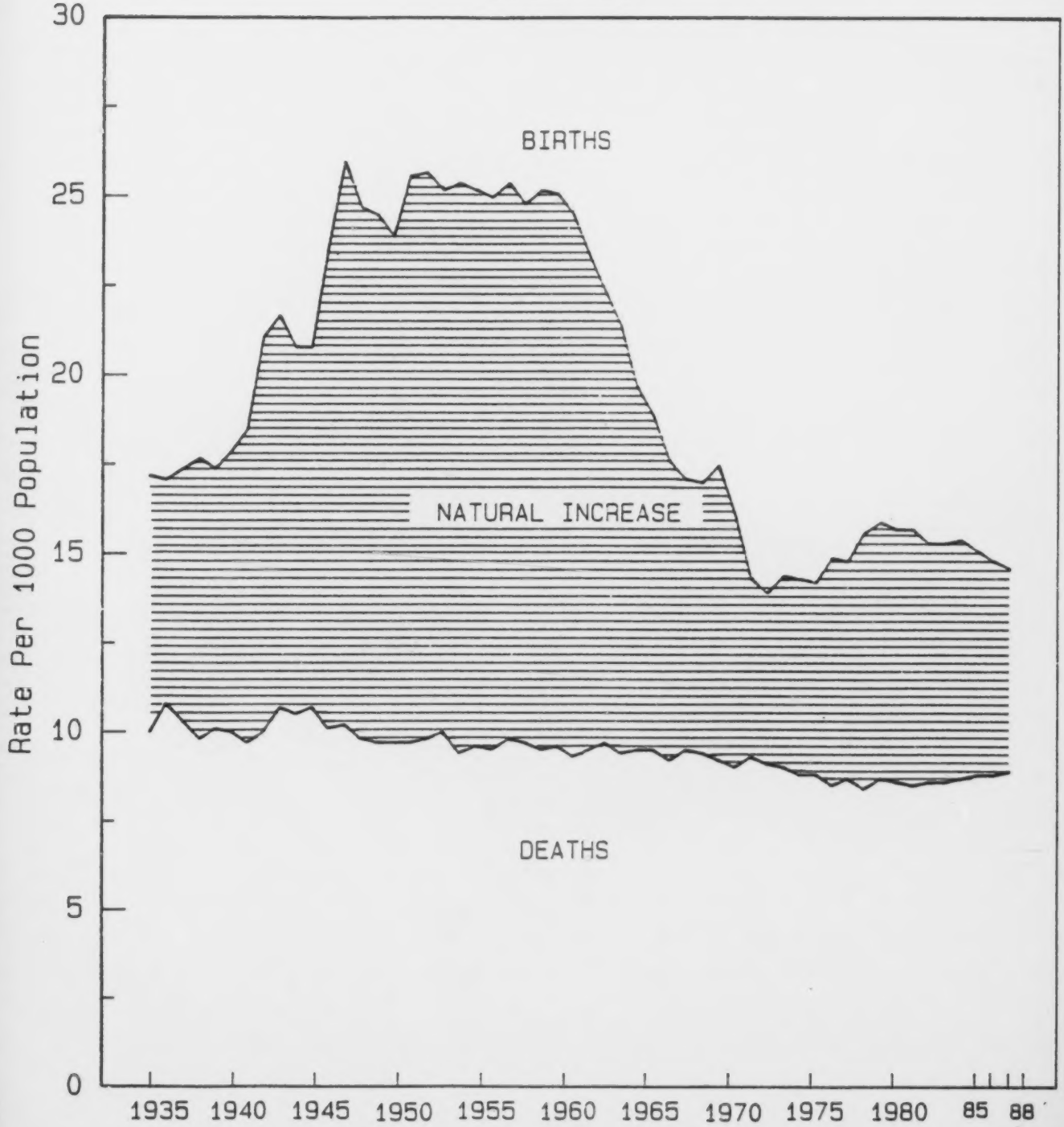


Figure 2

WISCONSIN'S POPULATION BY AGE, 1980–1988

(Resident Data)

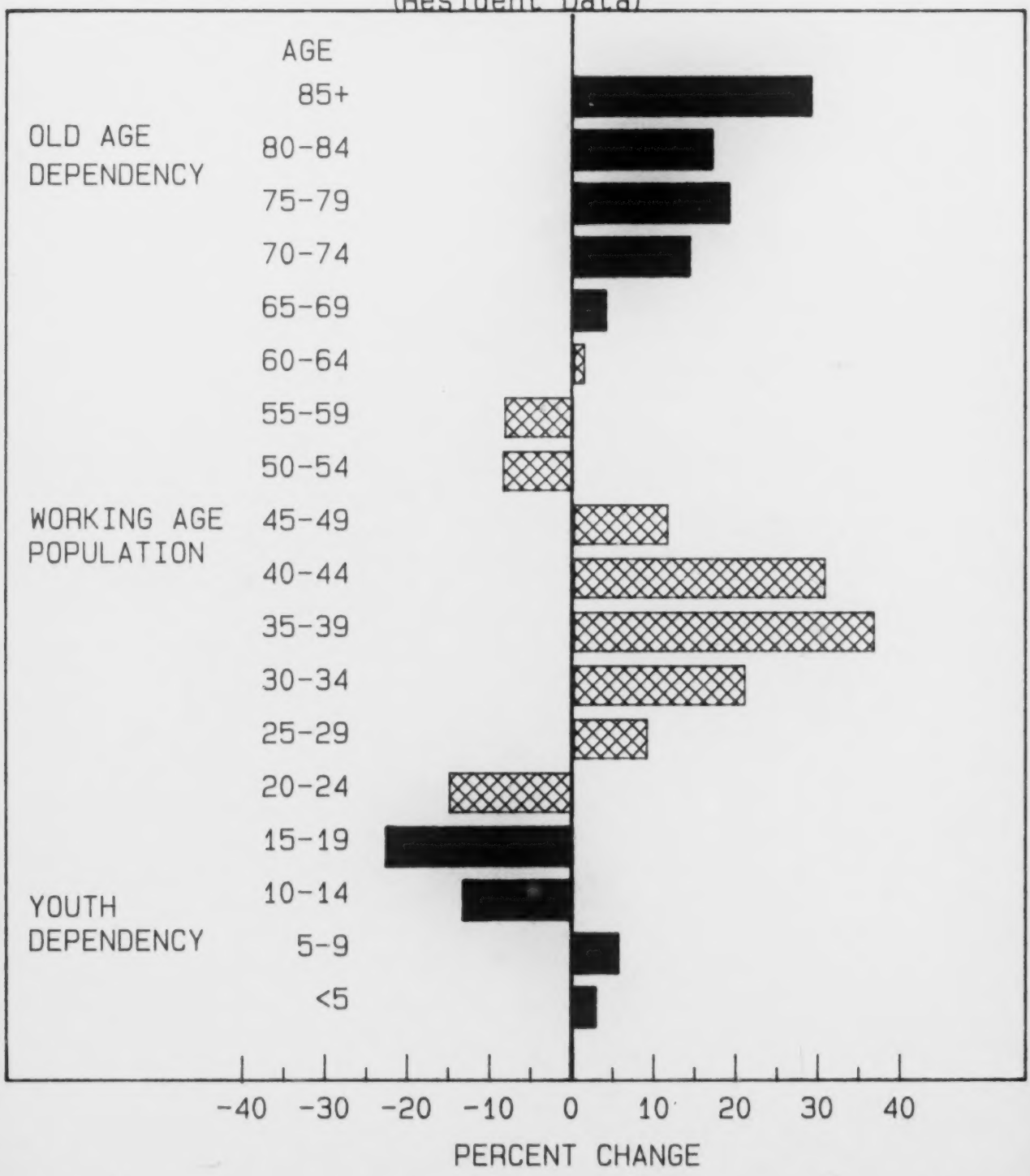


FIGURE 3
POPULATION PYRAMIDS
WISCONSIN, 1930-1980

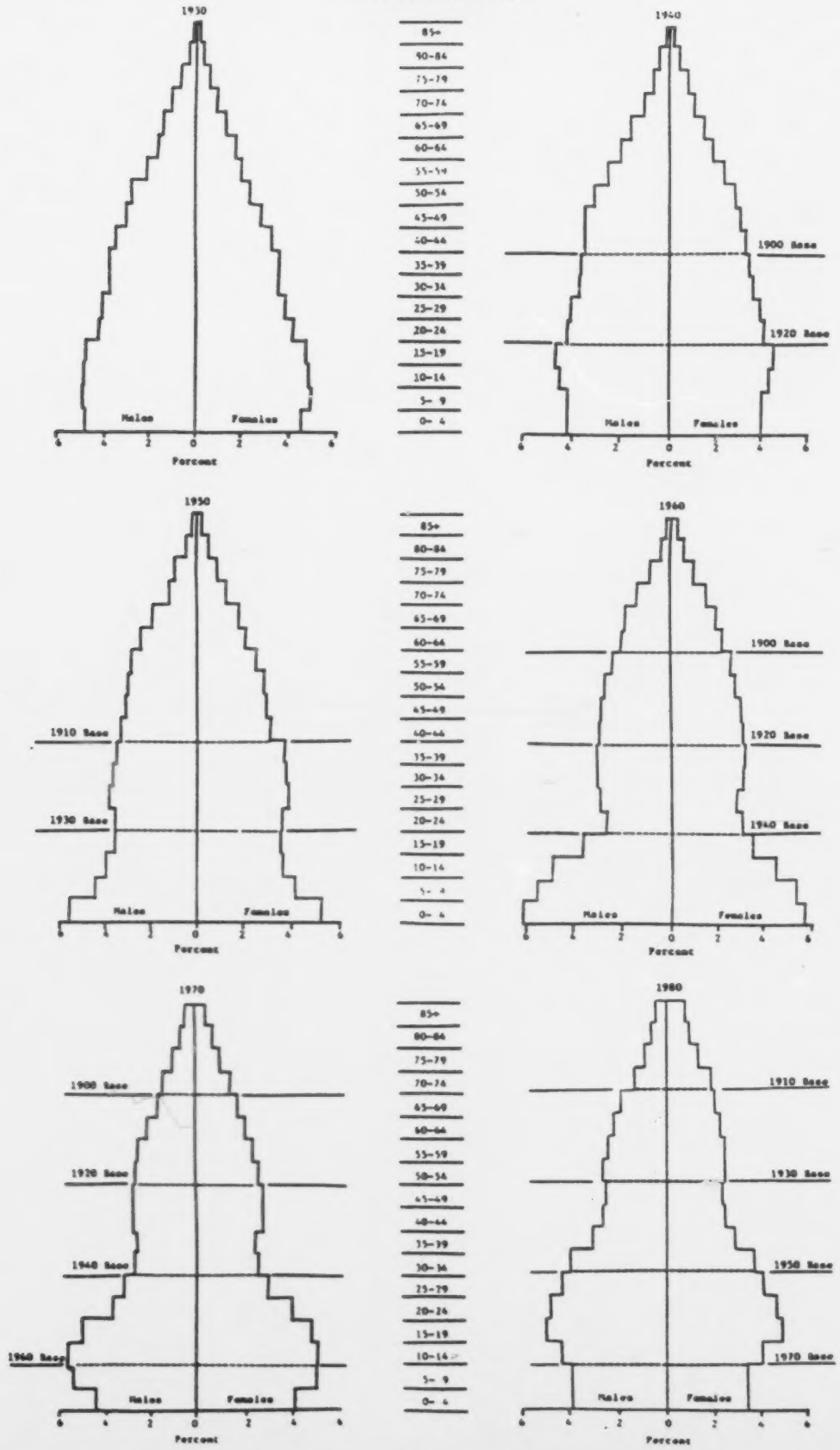


TABLE P 1.1

WISCONSIN POPULATION BY COUNTIES ENUMERATED IN 1980 AND ESTIMATED JULY 1, 1988
WITH AMOUNT AND RATE OF CHANGE

County	April 1, 1980 U. S. Census			July 1, 1988 Estimate	Change from 1980-1988	
	Total	White	Nonwhite		Number	Percent
State Total	4,705,767	4,443,035	262,732	4,855,000	101,233	2.2
Adams	13,457	13,049	408	14,300	843	6.3
Ashland	16,783	15,618	1,165	17,000	217	1.3
Barron	38,730	38,464	266	41,600	2,870	7.4
Bayfield	13,822	12,855	967	14,300	478	3.5
Brown	175,280	171,224	4,056	191,300	16,020	9.1
Buffalo	14,309	14,258	51	14,500	191	1.3
Burnett	12,340	11,883	457	13,600	1,260	10.2
Calumet	30,867	30,635	232	33,700	2,833	9.2
Chippewa	52,127	51,843	284	54,300	2,173	4.2
Clark	32,910	32,715	195	33,100	190	0.6
Columbia	43,222	42,892	330	47,500	4,278	9.9
Crawford	16,556	16,486	70	16,800	244	1.5
Dane	323,545	311,203	12,342	352,900	29,355	9.1
Dodge	75,064	73,635	1,429	77,000	1,936	2.6
Door	25,029	24,737	292	26,900	1,871	7.5
Douglas	44,421	43,481	940	42,000	(2,421)	-5.5
Dunn	34,314	33,821	493	35,400	1,086	3.2
Eau Claire	78,805	77,891	914	84,100	5,295	6.7
Florence	4,172	4,138	34	4,100	(72)	-1.7
Fond du Lac	88,964	88,181	783	90,400	1,436	1.6
Forest	9,044	8,426	618	9,100	56	0.6
Grant	51,736	51,419	317	51,100	(636)	-1.2
Green	30,012	29,881	131	31,100	1,088	3.6
Green Lake	18,370	18,242	128	19,000	630	3.4
Iowa	19,802	19,724	78	20,600	798	4.0
Iron	6,730	6,681	49	6,300	(430)	-6.4
Jackson	16,831	16,266	565	16,400	(431)	-2.6
Jefferson	66,152	65,272	880	68,900	2,748	4.2
Juneau	21,039	20,748	291	21,900	861	4.1
Kenosha	123,137	117,862	5,275	122,600	(537)	-0.4
Kewaunee	19,539	19,486	53	20,100	561	2.9
LaCrosse	91,056	90,159	897	95,500	4,444	4.9
Lafayette	17,412	17,355	57	16,700	(712)	-4.1
Langlade	19,978	19,843	135	19,800	(178)	-0.9
Lincoln	26,555	26,376	179	28,600	2,045	7.7

TABLE P 1.1

WISCONSIN POPULATION BY COUNTIES ENUMERATED IN 1980 AND ESTIMATED JULY 1, 1988
WITH AMOUNT AND RATE OF CHANGE

County	April 1, 1980 U. S. Census			July 1, 1988 Estimate	Change from 1980-1988	
	Total	White	Nonwhite		Number	Percent
Manitowoc	82,918	81,994	924	80,900	(2,018)	-2.4
Marathon	111,270	110,488	782	113,400	2,130	1.9
Marinette	39,314	39,091	223	42,300	2,986	7.6
Marquette	11,672	11,561	111	13,300	1,628	13.9
Menominee	3,373	352	3,021	4,200	827	24.5
Milwaukee	964,988	788,729	176,259	930,200	(34,788)	-3.6
Monroe	35,074	34,654	420	37,500	2,426	6.9
Oconto	28,947	28,744	203	31,100	2,153	7.4
Oneida	31,216	30,949	267	32,000	784	2.5
Outagamie	128,799	126,115	2,684	140,800	12,001	9.3
Ozaukee	66,981	66,029	952	72,200	5,219	7.8
Pepin	7,477	7,448	29	7,400	(77)	-1.0
Pierce	31,149	30,863	286	35,000	3,851	12.4
Polk	32,351	32,026	325	35,400	3,049	9.4
Portage	57,420	56,670	750	60,000	2,580	4.5
Price	15,788	15,707	81	16,500	712	4.5
Racine	173,132	155,206	17,926	173,800	668	0.4
Richland	17,476	17,383	93	17,300	(176)	-1.0
Rock	139,420	133,367	6,053	136,300	(3,120)	-2.2
Rusk	15,589	15,440	149	15,600	11	0.1
St. Croix	43,262	43,005	257	49,400	6,138	14.2
Sauk	43,469	43,133	336	46,500	3,031	7.0
Sawyer	12,843	11,416	1,427	14,500	1,657	12.9
Shawano	35,928	34,490	1,438	37,200	1,272	3.5
Sheboygan	100,935	99,526	1,409	103,000	2,065	2.0
Taylor	18,817	18,732	85	19,300	483	2.6
Trempealeau	26,158	26,070	88	26,300	142	0.5
Vernon	25,642	25,546	96	26,600	958	3.7
Vilas	16,535	15,323	1,212	17,900	1,365	8.3
Walworth	71,507	69,841	1,666	73,600	2,093	2.9
Washburn	13,174	13,053	121	13,800	626	4.8
Washington	84,848	84,304	544	93,400	8,552	10.1
Waukesha	280,326	276,105	4,221	302,300	21,974	7.8
Waupaca	42,831	42,535	296	45,700	2,869	6.7
Waushara	18,526	18,289	237	19,900	1,374	7.4
Winnebago	131,703	130,100	1,603	138,400	6,697	5.1
Wood	72,799	72,002	797	79,500	6,701	9.2

County totals may not add to state total because of independent rounding.

TABLE P 1.2

WISCONSIN POPULATION GROWTH DUE TO NATURAL INCREASE AND MIGRATION
1930-1988

Year	Estimated Population July 1, each year	Resident Births [a]	Resident Deaths [a]	Natural Increase (Births minus deaths)	% Gain or Loss through Migration [b] (Total Gain minus Natural Increase)
NOTE: DATA FOR YEARS 1930 THRU 1949 APPEAR IN THE 1979 PUBLIC HEALTH STATISTICS REPORT.					
1950	3,449,000	82,774	33,225	49,549	+0.25
1951	3,437,000	85,092	33,486	51,606	-1.85
1952	3,463,000	88,381	33,643	54,738	-0.83
1953	3,502,000	88,675	34,364	54,311	-0.44
1954	3,599,000	89,989	34,275	55,714	+1.15
1955	3,666,000	91,952	34,480	57,472	+0.26
1956	3,740,000	92,915	35,374	57,541	+0.44
1957	3,802,000	94,947	36,342	58,605	+0.09
1958	3,863,000	96,174	37,322	58,852	+0.06
1959	3,915,000	97,234	37,312	59,922	-0.20
1960 c	3,967,000	99,006	37,644	61,362	-0.24
1961	4,014,000	98,965	37,724	61,241	-0.35
1962	4,043,000	96,467	37,829	58,638	-0.73
1963	4,086,000	93,052	39,004	54,048	-0.27
1964	4,151,000	90,258	39,274	50,984	+0.34
1965	4,212,000	85,915	39,509	46,406	0.35
1966	4,262,000	81,666	40,241	41,425	+0.20
1967	4,303,000	78,105	39,995	38,110	+0.07
1968	4,332,000	75,028	40,489	34,539	-0.13
1969	4,381,000	74,291	41,198	33,093	+0.36
1970	4,425,000	75,890	40,946	34,944	+0.20
1971	4,465,000	74,716	40,600	34,116	+0.13
1972	4,512,000	68,348	41,227	27,121	+0.44
1973	4,518,000	63,758	41,684	22,074	-0.36
1974	4,538,000	63,973	41,052	22,921	-0.06
1975	4,555,000	65,147	40,363	24,784	-0.17
1976	4,578,000	65,093	40,054	25,039	-0.04
1977	4,613,000	66,795	39,759	27,036	+0.17
1978	4,645,000	68,561	39,806	28,755	+0.07
1979	4,680,000	70,892	39,716	31,176	+0.08
1980	4,714,000	73,987	39,974	34,013	0.00
1981	4,735,000	74,537	40,649	33,888	-0.27
1982	4,745,000	74,315	40,361	33,954	-0.51
1983	4,746,000	73,410	40,606	32,804	-0.67
1984	4,766,000	72,775	40,974	31,801	-0.25
1985	4,772,000	73,349	41,198	32,151	-0.55
1986	4,785,000	72,517	41,765	30,752	-0.37
1987	4,807,000	71,802	41,630	30,172	-0.17
1988	4,833,000	70,300	43,208	27,092	-0.43
Intercensal Population Increase					
1930-1940	198,581	533,489	307,717	225,772	-0.93
1940-1950	296,988	698,717	318,996	379,721	-2.64
1950-1960	517,202	920,079	353,098	566,981	-1.45
1960-1970	465,954	855,144	395,532	459,612	+0.16
1970-1980	288,036	681,940	404,235	277,705	+0.23

a. Births and Deaths in the upper panel have been recomputed on a Fiscal Year basis (July 1 to June 30) to match midyear population estimates. Births and deaths in the lower panel have been recomputed to an April 1 to March 31 basis to match Census dates.

b. The percent gain or loss through migration is computed by dividing the number of net migrants by the population at the beginning of the period in hundreds.

c. July 1 estimates, 1961 to 1969 and 1971 to 1979 have been adjusted for the error in previously published estimates revealed in the 1970 and 1980 Censuses.

TABLE P 1.3

WISCONSIN POPULATION CHARACTERISTICS BY COUNTY - JULY 1, 1988 ESTIMATE

County	Total	Age			
		0-19	20-34	35-64	65+
State Total	4,855,000	1,421,180	1,241,990	1,550,830	641,000
Adams	14,310	3,530	3,040	5,080	2,660
Ashland	17,040	4,900	3,730	5,160	3,250
Barron	41,580	12,120	9,150	13,120	7,190
Bayfield	14,300	4,010	2,970	4,660	2,660
Brown	191,250	60,620	52,530	57,790	20,320
Buffalo	14,480	4,240	3,070	4,590	2,570
Burnett	13,640	3,650	2,560	4,690	2,740
Calumet	33,690	11,400	8,190	10,500	3,610
Chippewa	54,310	17,280	12,650	16,750	7,630
Clark	33,140	10,470	6,690	10,270	5,700
Columbia	47,520	13,510	10,520	15,850	7,640
Crawford	16,840	5,190	3,560	5,260	2,830
Dane	352,830	93,980	122,480	103,600	32,770
Dodge	77,030	22,320	18,480	24,960	11,270
Door	26,900	7,370	6,380	8,440	4,700
Douglas	41,960	11,820	10,510	13,000	6,620
Dunn	35,420	10,470	10,720	9,470	4,760
Eau Claire	84,110	24,830	24,570	24,330	10,380
Florence	4,110	1,200	780	1,350	780
Fond du Lac	90,410	27,360	22,200	28,420	12,440
Forest	9,140	2,850	1,770	2,880	1,650
Grant	51,100	16,160	12,700	14,740	7,500
Green	31,060	9,080	7,380	9,820	4,780
Green Lake	19,000	5,210	3,890	6,200	3,700
Iowa	20,560	6,440	4,750	6,360	3,010
Iron	6,340	1,530	1,220	2,170	1,420
Jackson	16,420	4,750	3,480	5,300	2,890
Jefferson	68,880	20,640	16,730	22,070	9,430
Juneau	21,860	6,440	4,340	7,290	3,800
Kenosha	122,580	36,280	30,700	41,010	14,590
Kewaunee	20,090	6,300	4,530	6,180	3,080
LaCrosse	95,520	27,170	27,670	27,740	12,940
Lafayette	16,680	5,270	3,640	5,270	2,500
Langlade	19,770	5,920	3,930	6,360	3,560
Lincoln	28,570	8,460	5,870	9,460	4,790

TABLE P 1.3

WISCONSIN POPULATION CHARACTERISTICS BY COUNTY - JULY 1, 1988 ESTIMATE

County	Total	Age			
		0-19	20-34	35-64	65+
Manitowoc	80,860	24,010	18,810	25,880	12,150
Marathon	113,370	35,360	28,380	36,120	13,520
Marinette	42,350	12,190	8,910	13,770	7,480
Marquette	13,340	3,560	2,510	4,570	2,690
Menominee	4,180	1,850	910	1,100	330
Milwaukee	930,210	250,400	252,410	297,820	129,570
Monroe	37,520	11,210	8,240	12,390	5,690
Oconto	31,060	9,380	6,490	10,090	5,100
Oneida	31,980	8,590	6,870	11,270	5,250
Outagamie	140,790	45,410	36,400	43,480	15,500
Ozaukee	72,250	22,180	16,710	26,680	6,680
Pepin	7,360	2,280	1,560	2,130	1,390
Pierce	34,970	11,200	9,920	9,800	4,060
Polk	35,430	10,450	7,800	11,130	6,050
Portage	60,040	18,830	17,940	16,550	6,730
Price	16,550	4,790	3,210	5,370	3,180
Racine	173,790	53,330	43,560	57,400	19,500
Richland	17,330	4,970	3,840	5,490	3,020
Rock	136,350	41,510	34,040	44,260	16,540
Rusk	15,650	4,800	3,320	4,910	2,620
St. Croix	49,370	15,880	12,580	15,300	5,620
Sauk	46,520	13,370	10,400	14,960	7,790
Sawyer	14,530	4,020	2,760	5,010	2,740
Shawano	37,160	11,020	7,270	12,360	6,510
Sheboygan	103,010	29,860	24,780	33,260	15,110
Taylor	19,280	6,250	4,260	5,820	2,950
Trempealeau	26,260	7,670	5,550	8,300	4,740
Vernon	26,580	7,290	5,430	8,830	5,040
Vilas	17,910	4,380	3,240	6,520	3,780
Walworth	73,560	20,790	18,800	23,490	10,470
Washburn	13,830	3,870	2,750	4,660	2,550
Washington	93,360	30,800	23,450	30,490	8,620
Waukesha	302,280	95,220	71,340	110,980	24,740
Waupaca	45,730	12,930	9,650	14,400	8,760
Waushara	19,880	5,340	3,940	6,640	3,950
Winnebago	138,430	38,890	37,330	44,380	17,830
Wood	79,490	24,580	19,240	25,080	10,590

Age totals across counties do not agree with age totals in Table P 1.1 because different methods are used.

County totals may not agree with the sum of the age groups because of independent rounding.

TABLE P 1.4

WISCONSIN POPULATION BY AGE AND SEX, WHITE AND NONWHITE
1980 CENSUS AND 1988 ESTIMATE

Age	Total				Male				Female			
	1988 Estimate	1980 Census			1988 Estimate	1980 Census			1988 Estimate	1980 Census		
		Total	White	Nonwhite		Total	White	Nonwhite		Total	White	Nonwhite
Total	4,855,000	4,705,767	4,443,035	262,732	2,382,100	2,305,427	2,177,806	127,621	2,473,000	2,400,340	2,265,229	135,111
Under 5	356,800	346,940	316,240	30,700	183,300	178,111	162,719	15,392	173,500	168,829	153,521	15,308
Under 1	70,000	75,319	68,489	6,830	36,000	38,690	35,193	3,497	34,000	36,629	33,296	3,333
1 year		69,787	63,605	6,182		35,979	32,847	3,132		33,808	30,758	3,050
2 years		68,703	62,725	5,978		35,100	32,152	2,948		33,603	30,573	3,030
3 years		67,005	61,121	5,884		34,293	31,377	2,916		32,712	29,744	2,968
4 years		66,126	60,300	5,826		34,049	31,150	2,899		32,077	29,150	2,927
5-9 years	364,100	344,804	313,835	30,969	186,900	176,843	161,331	15,512	177,200	167,961	152,504	15,457
10-14 years	339,800	392,247	362,555	29,692	174,500	200,634	185,652	14,982	165,300	191,613	176,903	14,710
15-19 years	360,400	466,612	436,852	29,760	183,300	235,736	220,906	14,830	177,100	230,876	215,946	14,930
20-24 years	382,100	450,026	421,067	28,959	190,800	224,250	210,121	14,129	191,300	225,776	210,946	14,830
25-29 years	438,600	401,915	376,189	25,726	221,900	202,273	189,933	12,340	216,700	199,642	186,256	13,386
30-34 years	421,300	348,115	327,841	20,274	213,900	174,497	164,994	9,503	207,400	173,618	162,847	10,771
35-39 years	371,500	271,661	257,318	14,343	186,100	134,821	128,037	6,784	185,400	136,840	129,281	7,559
40-44 years	301,200	230,312	218,574	11,738	150,000	114,330	108,799	5,531	151,200	115,982	109,775	6,207
45-49 years	245,400	219,866	209,858	10,008	121,500	108,401	103,827	4,574	123,900	111,465	106,031	5,434
50-54 years	213,100	233,079	224,205	8,874	105,800	114,761	110,552	4,209	107,300	118,318	113,653	4,665
55-59 years	209,900	229,046	222,159	6,887	102,100	110,278	106,884	3,394	107,800	118,768	115,275	3,493
60-64 years	209,800	206,947	202,048	4,899	98,900	96,830	94,534	2,296	110,900	110,117	107,514	2,603
65-69 years	192,100	184,722	180,912	3,810	88,600	84,318	82,632	1,686	103,500	100,404	98,280	2,124
70-74 years	166,500	145,693	143,054	2,639	72,600	62,950	61,846	1,104	93,900	82,743	81,208	1,535
75-79 years	128,100	107,568	105,806	1,762	51,700	43,289	42,584	705	76,400	64,279	63,222	1,057
80-84 years	82,600	70,577	69,629	948	29,500	25,539	25,165	374	53,100	45,038	44,464	574
85-89 years	46,700	37,941	37,481	460	14,300	12,416	12,235	181	32,400	25,525	25,246	279
90-94 years	19,400	14,058	13,873	185	5,100	4,191	4,136	55	14,300	9,867	9,737	130
95+ years	5,700	3,638	3,539	99	1,300	959	919	40	4,400	2,679	2,620	59
65+ years	641,100	564,197	554,294	9,903	263,100	233,662	229,517	4,145	378,000	330,535	324,777	5,758
Median age	32.2	29.4	29.9	21.8	31.2	28.3	28.9	21.1	33.2	30.4	31.0	22.4

*Column does not add to total due to rounding.

P 1.5

ABRIDGED LIFETABLES FOR WISCONSIN POPULATION, MALE AND FEMALE

1986-1988 (1987 AVERAGE)

MALE

AGE INTERVAL X TO X + N	NUMBER LIVING EXACTLY TO AGE X	PROBABILITY OF DEATH DURING AGE INTERVAL	TOTAL NUMBER OF PERSONS IN AGE GROUP X TO X+N	*MEAN OF YEARS LIVED FROM AGE X TO DEATH	**AVERAGE AGE AT DEATH OF THOSE AGE X
0 TO 1	100000.	0.00882	99361.	73.31	76.51
1 TO 4	99118.	0.00188	395982.	72.96	76.65
5 TO 9	98931.	0.00128	494304.	69.10	76.68
10 TO 14	98805.	0.00148	493687.	64.18	76.70
15 TO 19	98658.	0.00534	492078.	59.27	76.72
20 TO 24	98131.	0.00767	488922.	54.58	76.80
25 TO 29	97378.	0.00644	485448.	49.98	76.92
30 TO 34	96751.	0.00652	482303.	45.29	77.02
35 TO 39	96120.	0.00894	478620.	40.57	77.12
40 TO 44	95260.	0.01108	473871.	35.91	77.25
45 TO 49	94205.	0.02016	466642.	31.28	77.42
50 TO 54	92306.	0.03245	454599.	26.87	77.71
55 TO 59	89311.	0.04965	436261.	22.68	78.18
60 TO 64	84877.	0.08477	407566.	18.72	78.88
65 TO 69	77682.	0.12631	365281.	15.21	80.00
70 TO 74	67870.	0.19223	308161.	12.03	81.50
75 TO 79	54823.	0.29186	234975.	9.27	83.50
80 TO 84	38823.	0.42013	152845.	7.04	87.07
85 TO 99	22512.	1.00000	120338.	5.35	92.50

FEMALE

AGE INTERVAL X TO X + N	NUMBER LIVING EXACTLY TO AGE X	PROBABILITY OF DEATH DURING AGE INTERVAL	TOTAL NUMBER OF PERSONS IN AGE GROUP X TO X+N	*MEAN OF YEARS LIVED FROM AGE X TO DEATH	**AVERAGE AGE AT DEATH OF THOSE AGE X
0 TO 1	100000.	0.00659	99523.	79.56	82.78
1 TO 4	99341.	0.00153	396961.	79.09	82.88
5 TO 9	99188.	0.00070	495747.	75.21	82.90
10 TO 14	99119.	0.00086	495398.	70.26	82.91
15 TO 19	99033.	0.00213	494682.	65.32	82.93
20 TO 24	98823.	0.00230	493592.	60.45	82.96
25 TO 29	98596.	0.00242	492430.	55.59	82.99
30 TO 34	98357.	0.00301	491105.	50.71	83.03
35 TO 39	98061.	0.00467	489253.	45.86	83.07
40 TO 44	97603.	0.00674	486501.	41.06	83.14
45 TO 49	96945.	0.01225	481989.	36.32	83.23
50 TO 54	95758.	0.01944	474490.	31.74	83.41
55 TO 59	93896.	0.02902	463178.	27.31	83.69
60 TO 64	91171.	0.04687	445941.	23.05	84.09
65 TO 69	86898.	0.07233	419850.	19.05	84.72
70 TO 74	80613.	0.10982	382265.	15.33	85.78
75 TO 79	71760.	0.17238	329354.	11.89	87.34
80 TO 84	59390.	0.28457	255679.	8.83	89.52
85 TO 99	42489.	1.00000	268446.	6.32	92.50

* LIFE EXPECTATION AT AGE X
** MEDIAN AGE AT DEATH OF THOSE ALIVE AT AGE X

SUMMARY OF VITAL EVENTS

WISCONSIN VITAL EVENTS AND RATES (1935-1988)

(Resident Data)

Year	Estimated Mid Year Population	Live Births		Infant Deaths		Fetal Deaths		Total Deaths (excl. fetal Deaths)		Maternal Deaths		Marriages		Divorces Annulments & Separations	
		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.[c]	Rate	No.[c]	Rate
Note:	Data for years 1910 thru 1934 appear in the 1979 Public Health Statistics report.														
1935	3,048,000	52,402	17.2	2,413	46.0	1,257	23.4	30,404	10.0	193	368.3	21,075	6.9	3,543	1.2
1936	3,063,000	52,429	17.1	2,509	47.9	1,271	23.7	32,926	10.8	206	392.9	22,666	7.4	3,741	1.2
1937	3,078,000	53,504	17.4	2,329	43.5	1,254	22.9	31,733	10.3	188	351.4	23,285	7.6	3,999	1.3
1938	3,099,000	54,746	17.7	2,308	42.2	1,250	22.3	30,385	9.8	165	301.4	20,732	6.7	3,568	1.2
1939	3,121,000	54,187	17.4	2,172	40.1	1,180	21.3	31,404	10.1	153	282.4	21,276	6.8	3,673	1.2
1940	3,138,000	56,324[b]	17.9	2,030	36.0	1,209	21.0	31,457	10.0	151	268.1	23,379	7.5	3,599	1.1
1941	3,140,000	58,043	18.5[a]	1,922	33.1	1,140	19.3	30,445	9.7	137	236.0	28,816	9.2	4,050	1.3
1942	3,053,000	64,504	21.1	2,030	31.5	1,366	20.7	30,639	10.0	109	169.0	24,860	8.1	3,905	1.3
1943	3,014,000	65,404	21.7	2,224	34.0	1,306	19.6	32,323	10.7	126	192.6	22,393	7.4	4,469	1.5
1944	2,980,000	61,928	20.8	1,950	31.5	1,183	18.7	31,373	10.5	113	182.5	21,190	7.1	5,326	1.8
1945	2,961,000	61,577	20.8	1,890	30.7	1,141	18.2	31,776	10.7	81	131.5	25,269	8.5	6,393	2.2
1946	3,167,000	74,868	23.6	2,235	29.9	1,300	17.1	31,965	10.1	101	134.9	38,964	12.3	8,197	2.6
1947	3,250,000	84,562	26.0	2,470	29.2	1,410	16.4	33,078	10.2	87	102.9	35,555	10.9	5,877	1.8
1948	3,314,000	81,814	24.7	2,147	26.2	1,357	16.3	32,535	9.8	83	101.4	32,579	9.8	5,075	1.5
1949	3,391,000	83,183	24.5	2,193	26.4	1,274	15.1	32,876	9.7	47	56.5	27,782	8.2	4,815	1.4
1950	3,449,000	82,364	23.9	2,098	25.5	1,241	14.8	33,573	9.7	35	42.5	29,081	8.4	4,845	1.4
1951	3,437,000	87,819	25.6	2,182	24.8	1,343	15.1	33,397	9.7	42	47.8	27,133	7.9	4,473	1.3
1952	3,463,000	88,941	25.7	2,160	24.3	1,267	14.0	33,887	9.8	42	47.2	24,737	7.1	4,847	1.4
1953	3,502,000	88,408	25.2	2,069	23.4	1,251	14.0	34,839	10.0	38	43.0	25,469	7.3	5,011	1.4
1954	3,599,000	91,570	25.4	2,002	21.9	1,216	13.1	33,709	9.4	34	37.1	24,921	6.9	4,887	1.4
1955	3,666,000	92,333	25.2	2,175	23.6	1,233	13.2	35,250	9.6	22	23.8	25,543	7.0	4,720	1.3
1956	3,740,000	93,496	25.0	2,133	22.8	1,235	13.0	35,498	9.5	20	21.4	26,833	7.2	4,488	1.2
1957	3,802,000	96,398	25.4	2,145	22.3	1,278	13.1	37,185	9.8	35	36.3	25,723	6.8	4,336	1.1
1958	3,863,000	95,950	24.8	2,250	23.4	1,246	12.8	37,457	9.7	29	30.2	24,985	6.5	4,499	1.2
1959	3,915,000	98,518	25.2	2,295	23.3	1,222	12.3	37,166	9.5	34	34.5	25,637	6.5	4,657	1.2
1960[e]	3,967,000	99,493	25.1	2,173	21.8	1,341	13.3	38,121	9.6	27	27.1	24,573	6.2	3,672[d]	0.9
1961	4,014,000	98,435	24.5	2,235	22.7	1,243	12.5	37,325	9.3	27	27.4	24,232	6.0	4,300	1.1
1962	4,043,000	94,497	23.4	1,929	20.4	1,114	11.7	38,332	9.5	26	27.5	24,114	6.0	4,547	1.1
1963	4,086,000	91,605	22.4	2,060	22.5	1,184	12.8	39,676	9.7	20	21.8	25,678	6.3	4,918	1.2
1964	4,151,000	88,910	21.4	1,848	20.8	1,112	12.4	38,872	9.4	16	18.0	26,832	6.5	5,214	1.3
1965	4,212,000	82,919	19.7	1,829	22.1	1,042	12.4	40,146	9.5	13	15.7	28,410	6.7	5,232	1.2
1966	4,262,000	80,412	18.9	1,640	20.4	958	11.8	40,336	9.5	21	26.1	28,473	6.7	5,293	1.2
1967	4,303,000	75,797	17.6	1,484	19.6	867	11.3	39,654	9.2	9	11.9	30,480	7.1	6,105	1.4
1968	4,332,000	74,257	17.1	1,453	19.6	838	11.2	41,323	9.5	9	12.1	33,019	7.6	7,260	1.7
1969	4,381,000	74,324	17.0	1,281	17.2	872	11.6	41,072	9.4	15	20.2	34,402	7.9	7,832	1.8
1970	4,425,000	77,455	17.5	1,308	16.9	817	10.4	40,820	9.2	6	7.7	34,415	7.8	8,930	2.0
1971	4,465,000	71,976	16.1	1,157	16.1	767	10.5	40,380	9.0	10	13.9	34,858	7.8	8,927	2.0
1972	4,512,000	64,719	14.3	984	15.2	680	10.4	42,074	9.3	9	13.9	38,608	8.6	10,492	2.3
1973	4,518,000	62,796	13.9	900	14.3	590	9.3	41,203	9.1	7	11.1	40,098	8.9	11,595	2.6
1974	4,538,000	65,150	14.4	898	13.8	579	8.8	40,811	9.0	3	4.6	38,248	8.4	12,470	2.7
1975	4,555,000	65,145	14.3	881	13.5	530	8.1	39,916	8.8	3	4.6	35,888	7.9	13,187	2.9
1976	4,578,000	65,042	14.2	818	12.6	540	8.2	40,191	8.8	6	9.2	36,024	7.9	14,579	3.2
1977	4,613,000	68,548	14.9	774	11.3	478	6.9	39,325	8.5	7	10.2	37,430	8.1	14,792	3.2
1978	4,645,000	68,573	14.8	769	11.2	421	6.1	40,285	8.7	8	11.7	38,189	8.2	16,129	3.5
1979	4,680,000	73,209	15.6	790	10.8	496	6.7	39,145	8.4	3	4.1	39,556	8.5	17,161	3.7
1980	4,714,000	74,763	15.9	763	10.2	549[e]	7.3	40,801	8.7	5	6.7	41,113	8.7	17,589	3.7
1981	4,735,000	74,309	15.7	768	10.3	571[c]	7.6	40,495	8.6	3	4.0	41,114	8.7	18,459	3.9
1982	4,745,000	74,319	15.7	700	9.4	529[c]	7.1	40,226	8.5	-	--	42,146	8.9	17,327	3.7
1983	4,746,000	72,499	15.3	699	9.6	486[c]	6.7	40,985	8.6	4	5.5	40,758	8.6	16,503	3.5
1984	4,762,000	73,050	15.3	723	9.9	514[c]	7.0	40,962	8.6	3	4.1	41,101	8.6	16,625	3.5
1985	4,772,000	73,647	15.4	674	9.2	471[c]	6.4	41,434	8.7	4	5.4	40,014	8.4	16,396	3.5
1986	4,785,000	72,229	15.1	663	9.2	471[c]	6.5	42,027	8.8	3	4.2	38,373	8.0	16,395	3.4
1987	4,807,000	70,907	14.8	611	8.6	441[c]	6.2	42,074	8.8	3	4.2	37,647	7.8	16,923	3.5
1988	4,833,000	70,711	14.6	598	8.5	429	6.0	42,979	8.9	3	4.2	41,445	8.5	17,127	3.5

a. Crude birth rates for 1941-1946 are calculated on the civilian population as suggested in National Office of Vital Statistics of the U.S., 1950, Vol. 1, page 29.

b. Number of live births, 1940-1950 corrected for underregistration.

c. Figures are by Place of Occurrence.

d. Excluded legal separations, from 1960 to present.

e. July 1 population estimates, 1960-1970 and 1970 to 1980 have been revised after the Census.

TABLE R 1.7

LIVE BIRTHS BY COUNTY
WISCONSIN, 1979 - 1983 AND 1984 - 1988
WITH FIVE YEAR AVERAGES AND RATES

(RESIDENT DATA)

COUNTY	1979	1980	1981	1982	1983	FIVE YEAR AVERAGE 1979-1983	FIVE YEAR RATE	1984	1985	1986	1987	1988	FIVE YEAR AVERAGE 1984-1988	FIVE YEAR RATE
TOTAL	73209	74763	74309	74327	72499	73821	15.6	73050	73647	72229	70907	70711	72109	15.1
ADAMS	162	179	177	175	164	171	12.4	182	170	170	164	173	172	11.6
ASHLAND	243	279	302	282	295	280	16.4	256	248	274	220	256	251	15.1
BARRON	656	654	693	745	679	685	17.5	672	628	578	567	571	603	15.0
BAYFIELD	198	219	212	209	230	214	15.3	200	193	187	174	174	186	13.2
BROWN	2790	2802	2824	2833	2856	2821	15.9	2821	2917	2929	2910	2847	2865	15.3
BUFFALO	232	236	197	239	229	227	15.8	184	227	213	220	165	202	14.0
BURNETT	215	167	203	179	194	192	15.2	162	160	157	152	142	155	11.3
CALUMET	485	546	519	556	551	531	17.2	550	514	567	546	536	543	15.6
CHIPPEWA	882	903	924	854	920	897	17.0	851	867	822	709	715	793	14.7
CLARK	542	641	581	587	576	585	17.7	533	514	468	488	518	504	15.9
COLUMBIA	623	667	668	682	655	659	15.1	624	650	657	608	579	624	13.9
CRAWFORD	255	293	284	296	276	281	17.0	272	239	251	250	241	251	15.4
DANE	4469	4685	4638	4684	4657	4627	14.1	4902	4984	5067	5124	5070	5029	14.7
DODGE	1110	1186	1173	1187	1108	1153	15.3	1115	1146	1115	1055	1020	1090	14.2
DOOR	409	412	397	406	379	401	15.8	345	400	368	376	317	361	13.2
DOUGLAS	688	702	713	676	645	685	15.3	580	590	549	547	532	560	13.1
DUNN	510	537	536	551	503	527	15.2	506	501	467	398	436	462	12.8
EAU CLAIRE	1083	1117	1265	1255	1185	1181	14.8	1203	1201	1111	1178	1237	1186	14.2
FLORENCE	69	55	64	66	54	62	14.8	50	63	51	45	57	53	11.6
FOND DU LAC ...	1461	1512	1460	1409	1333	1435	16.1	1382	1368	1316	1247	1248	1312	14.5
FOREST	131	140	161	147	156	147	16.0	144	156	136	152	136	145	15.5
GRANT	867	867	814	812	805	833	16.0	785	743	753	713	626	724	13.7
GREEN	456	483	471	514	507	486	16.2	439	471	469	404	404	437	14.2
GREEN LAKE	306	262	325	287	310	298	15.9	279	266	240	230	237	250	13.3
IOWA	356	345	342	340	366	350	17.6	335	319	346	305	306	322	15.6
IRON	70	84	72	86	64	75	11.4	63	76	63	68	66	67	10.0
JACKSON	291	276	271	291	257	277	16.1	236	240	228	230	249	237	15.0
JEFFERSON	1034	973	1029	952	953	988	14.9	987	1004	893	901	849	927	13.9
JUNEAU	379	347	355	331	343	351	16.6	327	339	301	323	279	314	14.3
KENOSHA	1796	1826	1815	1789	1839	1813	14.8	1796	1910	1787	1931	1909	1867	16.2
KEWAUNEE	327	323	347	311	303	322	16.4	336	303	274	301	227	288	13.9
LA CROSSE	1318	1350	1396	1372	1470	1381	15.0	1443	1394	1408	1365	1362	1394	14.8
LAFAYETTE	289	289	339	300	321	308	17.8	314	271	265	229	213	258	15.1
LANGLADE	301	287	313	271	334	301	15.1	276	259	299	249	280	273	13.6
LINCOLN	423	406	406	383	384	400	14.8	405	363	323	349	315	351	12.8
MANITOWOC	1290	1338	1262	1345	1208	1289	15.5	1263	1228	1127	1136	1040	1159	14.0
MARATHON	1934	1930	1806	1804	1728	1840	16.4	1730	1812	1650	1644	1620	1691	14.8
MARINETTE	580	662	671	578	559	610	15.3	551	592	562	535	494	547	13.2
MARQUETTE	172	167	163	183	148	167	13.9	184	158	175	169	141	165	12.0
MENOMINEE	99	111	96	108	116	106	31.2	112	132	151	138	113	129	33.1
MILWAUKEE	15680	15842	15806	16064	15631	15805	16.4	15887	16296	16254	16035	16358	16166	17.3
MONROE	555	607	582	638	564	589	16.7	581	600	555	552	569	571	15.9
OCONTO	446	469	435	461	415	445	15.3	458	451	453	413	433	442	14.7
ONEIDA	444	423	467	429	425	438	13.9	455	437	423	373	387	415	12.8
OUTAGAMIE	2268	2340	2229	2172	2197	2241	17.1	2171	2320	2180	2227	2268	2233	16.4
OZAUKEE	936	992	963	932	935	952	14.2	943	960	954	955	947	952	13.9
PEPIN	157	128	127	112	131	131	17.5	128	94	122	97	98	108	13.9
PIERCE	504	507	527	532	484	511	16.3	494	492	498	434	452	474	13.9
POLK	499	506	561	560	520	529	16.0	596	506	488	506	466	512	15.2
PORTAGE	841	928	891	896	851	881	15.5	956	876	903	818	850	881	14.0
PRICE	247	242	232	243	238	240	14.9	238	225	215	182	209	214	13.5
RACINE	2857	2980	2855	2717	2691	2820	16.2	2794	2641	2653	2661	2640	2678	16.3
RICHLAND	270	275	302	281	278	281	16.0	284	267	228	246	219	249	14.1
ROCK	2222	2256	2115	2196	2088	2175	15.6	2116	2189	2183	2106	2079	2135	15.3
RUSK	251	222	251	259	256	248	15.8	258	216	234	203	202	223	14.7
ST.CROIX	741	835	773	762	788	780	17.7	815	741	805	824	740	785	16.6
SAUK	692	654	696	691	661	679	15.6	697	690	674	671	663	679	14.6
SAWYER	182	219	239	228	215	217	16.4	224	203	224	228	196	215	15.9
SHAWANO	549	528	543	550	536	541	14.9	530	488	499	507	531	511	13.9
SHEBOYGAN	1559	1588	1595	1588	1515	1569	15.5	1517	1507	1492	1379	1397	1458	14.2
TAYLOR	357	379	339	370	345	358	18.7	340	354	294	280	309	315	15.8
TREMPEALEAU ...	384	373	416	400	387	392	15.0	392	370	352	324	316	351	13.0
VERNON	384	408	440	408	376	403	15.6	409	409	406	328	344	379	14.9
VILAS	200	228	218	222	222	218	13.0	236	240	214	228	190	222	12.4
WALWORTH	944	1026	971	1053	915	982	13.7	896	1009	951	914	995	953	12.7
WASHBURN	222	226	202	208	210	214	16.0	227	198	201	171	158	191	13.5
WASHINGTON	1428	1442	1422	1387	1359	1408	16.5	1359	1383	1335	1305	1315	1339	15.6
WAUKESHA	3841	3841	3824	3808	3610	3785	13.4	3661	3727	3799	3779	3940	3781	13.2
WAUPACA	673	697	690	677	660	679	15.7	625	656	637	597	603	624	13.6
WAUSHARA	276	243	236	267	294	263	14.2	241	247	266	259	231	249	12.7
WINNEBAGO	1882	1901	1867	1945	1887	1896	14.3	1961	2028	1964	1894	1901	1950	13.9
WOOD	1216	1199	1211	1192	1155	1195	16.0	1166	1211	1106	1061	1005	1110	14.5

TABLE R 1.8

DEATHS BY COUNTY
WISCONSIN, 1979 - 1983 AND 1984 - 1988
WITH FIVE YEAR AVERAGES AND RATES

(RESIDENT DATA)

COUNTY	1979	1980	1981	1982	1983	FIVE YEAR AVERAGE 1979-1983	FIVE YEAR RATE	1984	1985	1986	1987	1988	FIVE YEAR AVERAGE 1984-1988	FIVE YEAR RATE
TOTAL	39145	40801	40495	40226	40985	40330	8.5	40962	41434	42027	42074	42979	41895	8.8
ADAMS	157	136	137	148	153	146	10.6	156	178	163	173	172	168	11.4
ASHLAND	212	219	207	196	241	215	12.6	208	196	221	213	216	211	12.7
BARRON	403	411	426	406	436	416	10.6	423	432	416	461	441	435	10.8
BAYFIELD	152	146	158	151	137	149	10.6	133	159	137	157	152	148	10.5
BROWN	1122	1181	1287	1244	1262	1219	6.9	1247	1310	1258	1218	1285	1264	6.7
BUFFALO	144	129	138	149	137	139	9.7	149	147	159	136	123	143	9.9
BURNETT	120	168	149	146	145	146	11.6	155	128	138	142	154	143	10.4
CALUMET	219	205	214	202	212	210	6.8	212	221	210	231	244	224	6.4
CHIPPEWA	436	456	486	484	476	468	8.9	431	495	486	483	466	472	8.8
CLARK	285	316	325	366	374	333	10.1	335	345	340	313	330	333	10.5
COLUMBIA	446	436	421	424	455	436	10.0	433	440	442	427	488	446	10.0
CRAWFORD	159	167	176	160	173	167	10.1	166	176	169	163	183	171	10.5
DANE	1785	1928	2000	1865	2101	1936	5.9	2071	2112	2096	2147	2176	2120	6.2
DODGE	640	678	718	724	689	690	9.2	738	711	704	708	732	719	9.4
DOOR	254	262	246	272	257	258	10.2	276	245	251	256	248	255	9.3
DOUGLAS	504	457	454	476	464	471	10.5	471	422	470	431	478	454	10.6
DUNN	250	240	248	263	252	251	7.2	249	305	282	253	281	274	7.6
EAU CLAIRE	569	646	626	624	584	610	7.6	606	618	636	615	723	640	7.6
FLORENCE	42	52	49	58	54	51	12.1	46	39	27	50	45	41	9.0
FOND DU LAC ...	797	824	771	747	831	794	8.9	753	807	875	786	857	816	9.0
FOREST	109	104	123	102	114	110	12.0	116	118	89	111	111	109	11.7
GRANT	440	454	479	418	475	453	8.7	482	476	470	487	467	476	9.0
GREEN	282	311	299	289	286	293	9.8	318	303	325	280	316	308	10.0
GREEN LAKE	217	208	215	218	200	212	11.3	211	204	218	216	256	221	11.8
IOWA	174	204	221	162	184	189	9.5	192	205	196	202	184	196	9.5
IRON	84	93	90	95	87	90	13.6	89	75	78	77	84	81	12.1
JACKSON	163	179	166	189	179	175	10.2	188	176	176	187	185	182	11.5
JEFFERSON	535	605	502	570	560	554	8.3	565	576	586	581	537	569	8.5
JUNEAU	235	221	247	224	226	231	10.9	232	227	217	240	253	234	10.7
KENOSHA	1093	1021	964	1010	1054	1028	8.4	1058	1034	1051	1073	1146	1072	9.3
KEWAUNEE	165	166	192	194	171	178	9.1	175	179	177	178	161	174	8.4
LA CROSSE	780	768	747	765	797	771	8.4	797	798	802	858	828	817	8.7
LAFAYETTE	163	139	206	172	165	169	9.8	140	147	165	160	160	154	9.0
LANGLADE	207	207	239	226	212	218	10.9	206	234	219	207	226	218	10.9
LINCOLN	252	284	293	317	277	285	10.6	302	279	289	313	280	293	10.7
MANITOWOC	719	779	750	781	804	767	9.2	799	779	786	830	745	788	9.5
MARATHON	815	853	769	816	799	810	7.2	849	827	904	881	879	868	7.6
MARINETTE	449	446	473	406	441	443	11.1	411	424	416	455	503	442	10.7
MARQUETTE	128	134	135	165	141	141	11.8	134	152	122	147	148	141	10.3
MENOMINEE	30	36	38	33	42	36	10.6	40	37	30	36	35	36	9.2
MILWAUKEE	8857	9278	8980	8915	8965	8999	9.3	9065	9143	9411	9430	9449	9300	10.0
MONROE	333	339	351	385	347	351	9.9	367	376	385	347	354	366	10.2
OCONTO	320	300	333	304	315	314	10.8	319	304	274	308	314	304	10.1
ONEIDA	270	316	293	339	350	314	10.0	354	348	369	347	350	354	10.9
OUTAGAMIE	854	895	945	884	934	902	6.9	880	923	968	929	981	936	6.9
OZAUKEE	406	437	421	417	428	422	6.3	450	436	438	463	449	447	6.5
PEPIN	70	107	91	95	88	90	12.0	92	82	81	72	89	83	10.7
PIERCE	187	234	227	217	218	217	6.9	220	225	234	212	238	226	6.6
POLK	328	319	339	362	356	341	10.3	332	360	336	352	356	347	10.3
PORTAGE	347	360	398	405	374	377	6.6	423	375	384	429	421	406	6.4
PRICE	196	211	198	192	163	192	11.9	190	220	171	172	190	189	11.9
RACINE	1379	1393	1390	1327	1364	1371	7.9	1308	1328	1433	1425	1328	1364	8.3
RICHLAND	167	184	172	177	179	176	10.0	173	189	182	194	187	185	10.5
ROCK	1119	1205	1136	1176	1199	1167	8.4	1160	1204	1247	1200	1319	1226	8.8
RUSK	162	135	154	146	170	153	9.7	152	170	169	159	161	162	10.7
ST.CROIX	343	303	317	360	359	336	7.6	363	334	376	396	367	367	7.8
SAUK	387	433	442	420	446	426	9.8	437	459	455	433	470	451	9.7
SAWYER	144	155	166	159	176	160	12.1	167	136	140	169	173	157	11.6
SHAWANO	377	414	395	391	423	400	11.0	368	399	410	396	426	400	10.9
SHEBOYGAN	929	954	896	876	962	923	9.1	953	982	1005	916	939	959	9.4
TAYLOR	186	159	186	194	187	182	9.5	172	143	162	160	183	164	8.2
TREMPEALEAU ...	291	314	296	271	292	293	11.2	323	296	302	319	273	303	11.2
VERNON	313	325	288	255	288	294	11.4	335	289	317	287	301	306	12.0
VILAS	177	204	185	210	200	195	11.6	205	215	210	208	224	212	11.9
WALWORTH	634	626	623	645	679	641	9.0	632	662	694	699	690	675	9.0
WASHBURN	147	136	123	154	134	139	10.4	148	175	163	153	167	161	11.3
WASHINGTON	542	562	531	553	517	541	6.3	603	583	565	626	664	608	7.1
WAUKESHA	1665	1648	1681	1756	1746	1699	6.0	1784	1800	1850	1836	1945	1843	6.4
WAUPACA	567	618	619	606	571	596	13.8	620	610	601	626	614	614	13.4
WAUSHARA	195	214	201	211	209	206	11.1	191	238	200	200	214	209	10.7
WINNEBAGO	1061	1099	1076	1062	1112	1082	8.2	1026	1095	1087	1093	1218	1104	7.9
WOOD	539	583	601	551	587	572	7.7	588	599	612	636	627	612	8.0

NATALITY

1988 NATALITY STATISTICS

Total Births: Live births to Wisconsin residents totaled 70,711 in 1988. This represents a 0.3 percent decline from the 70,907 live births that occurred in 1987. There were 36,290 male births (51.3 percent) and 34,419 female births (48.7 percent), the usual difference in sex ratio at birth. The 1988 live birth rate of 14.6 per 1,000 population is the lowest recorded for Wisconsin since 1976. The lowest birth rate ever recorded for the state was 13.9 per 1,000 population in 1973.

Total Births by County: Births to residents of Milwaukee County (16,357) accounted for 23.1 percent of all Wisconsin resident births in 1988. Other counties with over 2,000 live births in 1988 included: Dane, Waukesha, Brown, Racine, Outagamie and Rock (Table 1.1). Menominee County had the highest birth rate, at 28.6 per 1,000 population. Other counties with high birth rates include Milwaukee, 18.0; Ashland, 17.9; Taylor 17.4; Calumet and Kenosha, 16.5 each.

Births by Race of Mother: Births to white mothers numbered 62,211 in 1988, or 88.0 percent of all births in the state. This figure represents a slight decline of approximately one percent from the 62,914 births to white mothers in 1987. Births to mothers from minority groups (black, American Indian, and other, which includes Asian and Pacific Islander) totaled 8,499 (12 percent of total births) and indicated a six percent increase over the 7,992 births to minority group mothers in 1987 (Table 1.1).

Births to black mothers increased by 5.2 percent (6,337 in 1988 compared to 6,026 in 1987). Births to Hispanic mothers increased 4.7 percent, to 1,280 births in 1988 from 1,222 in 1987. Births to American Indian mothers increased marginally in 1988, to 786 from 783 in 1987.

Births by Age of Mother: The majority of births in 1988 occurred to women aged 20 to 29 (61.2 percent). Births to women aged 30 to 39 accounted for 28.0 percent, while less than one percent occurred to women aged 40 and older. Mothers aged 19 and younger accounted for nearly one-tenth of all 1988 births (6,940). Births to all teenage mothers increased slightly from the 1987 total of 6,908.

Births to mothers under age 18 numbered 2,455 (35.4 percent of births to all teenage mothers and 3.5 percent of total births). By race (Table 1.2), percentages of total births to mothers aged 17 and younger were the highest for blacks, at 14.9 percent (942 births). Other percentages included: white, 2.3 percent (1,400 births); American Indian, 6.4 percent (50 births); Hispanic, 9.0 percent (115 births); and other races, 4.6 percent (63 births).

Marital Status of Mother: Births to unmarried mothers (15,511) constituted 21.9 percent of total Wisconsin resident births in 1988 (Table 1.3). This is the highest number and percent of births to unmarried mothers ever recorded in Wisconsin. The percentage of total births to unmarried mothers equaled 20.7 percent in 1987, 13.8 percent in 1980 and 8.6 in 1970.

By race of mother (Table 1.2) 15.9 percent of white births, 79.5 percent of black births, 61.2 percent of American Indian births and 41.8 percent of Hispanic births in 1988 occurred to unmarried mothers.

Percentages of births to unmarried mothers varied considerably by age. Births to unmarried mothers aged 20 to 29 and 30 and over comprised 19.7 percent and 8.1 percent, respectively, of

total births to mothers in these age groups. However, 76.5 percent of all mothers aged 19 and younger and 89.2 percent of mothers under age 18 were unmarried (Table 1.3).

Prenatal Care: The proportion of mothers who initiated prenatal care in the first trimester of pregnancy was 82.9 percent in 1988; during the second trimester, the proportion was 13.5 percent and during the third trimester, 2.7 percent. There were 436 mothers in 1988 who reported that they received no prenatal care at all (Table B).

Younger mothers were much less likely to have received prenatal care in the first trimester than older women. Only 53.6 percent of mothers less than 18 years old and 63.2 percent of mothers aged 18 to 19 received prenatal care in the first trimester in 1988. Among mothers aged 20 years and older, 85.4 percent received prenatal care in the first trimester.

As noted earlier, teenage mothers as a group accounted for 9.8 percent of total births in Wisconsin in 1988. However, they represented 27.6 percent of those mothers who received prenatal care only in the final trimester and 30.7 percent of those who received no prenatal care at all.

Table B

Live Births by Trimester Prenatal Care Began
by Age of Mother
Wisconsin, 1988

Trimester Prenatal Care Began	Total		<18		18-19		20+	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
First	58,590	82.9	1,316	53.6	2,835	63.2	54,438	85.4
Second	9,581	13.5	839	34.2	1,268	28.3	7,473	11.7
Third	1,934	2.7	227	9.2	306	6.8	1,399	2.2
None	436	0.6	62	2.5	62	1.4	312	0.5
Unknown	170	0.2	11	0.4	15	0.3	144	0.2
Total	7,0711	100.0	2,455	100.0	4,486	100.0	63,766	100.0

By race, white mothers were the most likely to have received initial prenatal care in the first trimester (85.9 percent). Comparative percentages included 62.7 percent for black mothers, 63.7 percent for American Indians, 66.2 percent for Hispanics and 50.6 percent for mothers of other races. Also, black and American Indian mothers showed the highest percentages of women who received no prenatal care during pregnancy, at 1.9 and 1.8 percent, respectively.

Education of Mother: Of all 1988 resident births, 16.1 percent occurred to mothers who had less than a high school education. The largest percentage of mothers were high school graduates (43.5 percent), while 22.2 percent had some college education and 18.0 percent had attended college for four years or more.

Birth Order: Firstborn infants accounted for 37.5 percent of total births in Wisconsin in 1988. Second-order births constituted 33.8 percent, third-order births constituted 17.6 percent and those of the fourth-order or higher accounted for 11.1 percent. By race, white mothers had the highest percentage of first- and second-order births (38.4 and 34.7 percent of total white births,

respectively). Minority group mothers had the highest proportion of births of the fourth-order or higher: 20.0 percent of total births to blacks, 21.9 percent of American Indian births, and 42.9 percent of births to mothers of other races. Only 9.3 percent of total births to white mothers were of the fourth-order or higher (Table 1.2).

Among teenage mothers, first-order births to white mothers represented 83.6 percent of total white teenage births (Table 1.4). In comparison, first-order births to black mothers accounted for 62.7 percent of total births; first-order births to mothers of other racial groups constituted 62.2 percent. Also, among mothers aged 17 and younger, 21.3 percent of births to black mothers and 26.5 percent of births to other minority group mothers were of the second-order or higher. Births of the second-order or higher to white mothers aged 17 and younger equaled 6.3 percent of total births.

Birthweight: As noted in the next section of this report, mortality statistics for Wisconsin illustrate that low birthweight represents the major threat to infant survival. Low birthweight infants (those weighing less than 2,500 grams, or 5 pounds, 8 ounces) accounted for 5.5 percent of total resident live births in 1988. Low birthweight infants were more likely to be born to teenage mothers (7.7 percent of total births to mothers in this age group) and to mothers aged 40 and over (6.4 percent) than to mothers aged 20 to 29 (5.3 percent) and 30 to 39 (5.0 percent) (Table 1.7).

By race of mother, the highest proportion of low birthweight infants occurred to black mothers, at 13.2 percent of total births. Low birthweight infants constituted 4.7 percent of total births to white mothers and 4.8 percent of births to mothers of other races.

Type of Delivery: Spontaneous vaginal deliveries accounted for approximately 70 percent of all resident deliveries in 1988. Births by Cesarean section (12,775) accounted for 18.0 percent. The proportion of Wisconsin deliveries by Cesarean section (Table C) has increased in recent years. Compared to the 1988 rate of 18.0 percent, Cesarean sections accounted for 13.4 percent of total deliveries in 1980 and only 5.1 percent in 1970. The 1988 Cesarean section rate, therefore, represents an increase of 34.3 percent over the 1980 rate and is more than two and one half times greater than the 1970 percent. Although there was a rapid rise in percent of Cesarean deliveries, Wisconsin remains below the national percentage, which was 24.1 in 1985.

Table C
Cesarean Deliveries in Wisconsin
1970-1988

Year	Total Births*	Cesarean Births Number	Percent
1970	77,455	3,928	5.1
1975	65,145	5,350	8.2
1980	74,763	10,004	13.4
1985	73,647	12,905	17.5
1988	70,711	12,775	18.0

*Live births and fetal deaths of 20 or more weeks gestation

TABLE 1.1

LIVE BIRTHS BY COUNTY
BY RACE/ETHNICITY OF MOTHER AND SEX OF CHILD
WISCONSIN 1988

(RESIDENT DATA)

COUNTY	TOTAL LIVE BIRTHS		WHITE		BLACK		AMER INDIAN		OTHER		*** HISPANIC ***	
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
ADAMS	93	80	92	78		1		1	1			
ASHLAND	152	104	132	86			20	18			1	2
BARRON	301	270	297	265	1		2	3	1	2	2	
BAYFIELD	100	74	86	66	2		12	8				
BROWN	1,433	1,414	1,340	1,325	1	4	46	45	46	40	6	5
BUFFALO	69	96	69	96							1	
BURNETT	73	69	70	63			3	6				
CALUMET	278	258	276	255				2	2	1		3
CHIPPEWA	369	346	366	343			2		1	3		1
CLARK	268	250	266	247	1	2		1	1			
COLUMBIA	270	309	269	308			1	1			2	2
CRAWFORD	133	108	133	108								
DANE	2,544	2,526	2,366	2,320	92	99	6	4	80	103	26	28
DODGE	507	513	506	511		1			1	1	4	3
DOOR	160	157	160	156				1			2	1
DOUGLAS	285	247	279	240	2		2	2	2	5	2	
DUNN	223	213	218	205				1	5	7	1	1
EAU CLAIRE	652	585	591	530	1	1	4	7	56	47		1
FLORENCE	29	28	29	28								
FOND DU LAC	657	591	649	581	1	4	3	1	4	5	6	4
FOREST	71	65	56	54		1	15	10				
GRANT	331	295	328	293			1		2	2		
GREEN	210	194	210	194								
GREEN LAKE	113	124	112	122		1		1	1		1	
IOWA	150	156	149	156					1		2	
IRON	33	33	31	32			2	1				
JACKSON	125	124	116	118			9	6				1
JEFFERSON	434	415	433	410				3	1	2	9	6
JUNEAU	133	146	131	146					2		2	
KENOSHA	1,014	895	923	820	84	69	4	4	3	2	47	43
KEWAUNEE	134	93	134	91		1		1				
LA CROSSE	704	658	645	590	1		4	3	54	65	6	2
LAFAYETTE	97	116	96	116	1						1	
LANGLADE	135	145	134	145			1					
LINCOLN	164	151	162	147		2	1	1	1	1		
MANITOWOC	537	503	513	483			1	3	23	17	9	3
MARATHON	842	778	775	732	2		5	2	60	44	1	
MARINETTE	261	233	259	231			1	2	1		3	
MARQUETTE	78	63	75	63			1		2		2	
MENOMINEE	60	53	2	1		1	58	51				
MILWAUKEE	8,381	7,976	5,403	5,114	2,711	2,640	69	57	198	165	368	335
MONROE	288	281	283	276	1		3	4	1	1		1
OCONTO	225	208	219	204			6	3		1	1	2
ONEIDA	197	190	193	183	1		2	6	1	1		
OUTAGAMIE	1,137	1,131	1,083	1,076		1	13	20	41	34	3	3
OZAUKEE	484	463	482	458	2	3				2	1	
PEPIN	50	48	50	48								
PIERCE	230	222	228	221	1			1	1			
POLK	247	219	243	213			4	6				
PORTAGE	461	389	456	381	1		1	1	3	7	5	7
PRICE	115	94	114	94			1					
RACINE	1,326	1,314	1,120	1,085	199	217	1	4	6	8	86	90
RICHLAND	105	114	104	113					1	1		1
ROCK	1,091	988	993	896	85	80	4	2	9	10	6	4
RUSK	99	103	95	95				2	4	6		
ST. CROIX	385	355	385	351						4	1	
SAUK	339	324	335	321		1	2	2	2		1	2
SAWYER	99	97	74	61			25	36				
SHAWANO	267	264	251	246	1		14	18	1			
SHEBOYGAN	715	682	677	645		2	3	6	35	29	11	6
TAYLOR	168	141	168	141								
TREMPEALEAU	159	156	159	156								
VERNON	174	170	174	170								
VILAS	100	90	77	66			23	24				
WALWORTH	488	507	486	500		2	1	2	1	3	13	13
WASHBURN	89	69	89	69								
WASHINGTON	658	657	652	652		1	1		5	4	3	1
WAUKESHA	2,022	1,918	1,999	1,903	2	1	2	3	19	11	30	17
WAUPACA	313	290	310	289			2		1	1	3	3
WAUSHARA	124	107	123	106					1	1	8	7
WINNEBAGO	1,000	901	960	879	6	2	5	3	29	17	3	2
WOOD	532	473	519	462			7	4	6	7	1	
TOTAL BIRTHS	36,290	34,419	31,982	30,229	3,199	3,137	393	393	716	660	680	600

NOTE: THERE WERE 2 OBSERVATIONS WHERE SEX WAS UNREPORTED; THESE WERE NOT INCLUDED IN THIS TABLE.
THERE WERE 7 OBSERVATIONS WHERE RACE WAS UNREPORTED; THESE WERE INCLUDED IN THE "OTHER" CATEGORY.

*** ALTHOUGH BIRTHS TO HISPANIC MOTHERS ARE TABULATED SEPARATELY, BIRTHS BY ANY RACE ALSO INCLUDE BIRTHS TO HISPANIC MOTHERS.

TABLE 1.2

LIVE BIRTHS BY SELECTED CHARACTERISTICS OF MOTHER
BY RACE/ETHNICITY OF MOTHER
WISCONSIN 1988

(RESIDENT DATA)

	TOTAL LIVE BIRTHS		WHITE		BLACK		AMER. INDIAN		OTHER		*** HISPANIC ***	
	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%
MARITAL STATUS												
MARRIED	55,198	78.1	52,315	84.1	1,296	20.5	305	38.8	1,282	93.2	745	58.2
UNMARRIED	15,511	21.9	9,896	15.9	5,041	79.5	481	61.2	93	6.8	535	41.8
UNKNOWN	1	0.0							1	0.1	0	
PLURALITY												
SINGLE BIRTH	69,081	97.7	60,765	97.7	6,170	97.4	778	99.0	1,368	99.4	1,262	98.6
MULTIPLE BIRTH	1,629	2.3	1,446	2.3	167	2.6	8	1.0	8	0.6	18	1.4
EDUCATION OF MOTHER												
ELEM. OR NONE	1,788	2.5	833	1.3	234	3.7	23	2.9	698	50.7	191	14.9
SOME H.S.	9,611	13.6	6,512	10.5	2,689	42.4	259	33.0	151	11.0	470	36.7
H.S. GRAD.	30,764	43.5	27,920	44.9	2,297	36.2	357	45.4	190	13.8	401	31.3
1-4 YEARS COLLEGE	15,699	22.2	14,571	23.4	896	14.1	125	15.9	107	7.8	154	12.0
4 YEARS COLLEGE	8,803	12.4	8,519	13.7	159	2.5	12	1.5	113	8.2	40	3.1
5+ YEARS COLLEGE	3,927	5.6	3,762	6.0	60	0.9	7	0.9	98	7.1	23	1.8
UNKNOWN	118	0.2	94	0.2	2	0.0	3	0.4	19	1.4	1	0.1
AGE OF MOTHER												
<15	133	0.2	36	0.1	86	1.4	4	0.5	7	0.5	6	0.5
15-17	2,322	3.3	1,364	2.2	856	13.5	46	5.9	56	4.1	109	8.5
18-19	4,485	6.3	3,251	5.2	1,014	16.0	119	15.1	101	7.3	136	10.6
20-24	18,018	25.5	15,160	24.4	2,185	34.5	301	38.3	372	27.0	422	33.0
25-29	25,267	35.7	23,358	37.5	1,321	20.8	198	25.2	390	28.3	347	27.1
30-34	15,338	21.7	14,319	23.0	664	10.5	91	11.6	264	19.2	190	14.8
35-39	4,474	6.3	4,149	6.7	183	2.9	25	3.2	117	8.5	63	4.9
40-44	630	0.9	555	0.9	25	0.4	2	0.3	48	3.5	6	0.5
45+	39	0.1	16	0.0	2	0.0			21	1.5	1	0.1
UNKNOWN	4	0.0	3	0.0	1	0.0					0	
LIVE BIRTH ORDER												
FIRST	26,491	37.5	23,867	38.4	2,047	32.3	246	31.3	331	24.1	398	31.1
SECOND	23,894	33.8	21,586	34.7	1,815	28.6	227	28.9	266	19.3	365	28.5
THIRD	12,452	17.6	10,919	17.6	1,205	19.0	141	17.9	187	13.6	253	19.8
FOURTH	4,735	6.7	3,813	6.1	678	10.7	91	11.6	153	11.1	156	12.2
FIFTH+	3,114	4.4	2,005	3.2	591	9.3	81	10.3	437	31.8	107	8.4
UNKNOWN	24	0.0	21	0.0	1	0.0			2	0.1	1	0.1
BIRTH WEIGHT												
<1500 GRAMS	680	1.0	500	0.8	160	2.5	8	1.0	12	0.9	13	1.0
1500-2499 GRAMS	3,177	4.5	2,414	3.9	679	10.7	25	3.2	59	4.3	56	4.4
2500+ GRAMS	66,845	94.5	59,290	95.3	5,498	86.8	753	95.8	1,304	94.8	1,211	94.6
UNKNOWN	5	0.0	7	0.0					1	0.1	0	
MONTH PRENATAL CARE BEGAN												
1-3	58,590	82.9	53,422	85.9	3,971	62.7	501	63.7	696	50.6	847	66.2
4-6	9,580	13.5	7,133	11.5	1,736	27.4	204	26.0	507	36.8	317	24.8
7-9	1,934	2.7	1,202	1.9	503	7.9	73	9.3	156	11.3	91	7.1
NONE	436	0.6	303	0.5	122	1.9	5	0.6	6	0.4	23	1.8
UNKNOWN	170	0.2	151	0.2	5	0.1	3	0.4	11	0.8	2	0.2
NUMBER OF PRENATAL VISITS												
NONE	438	0.6	304	0.5	123	1.9	5	0.6	6	0.4	23	1.8
1-4	2,234	3.2	1,245	2.0	752	11.9	81	10.3	156	11.3	99	7.7
5-9	12,797	18.1	9,946	16.0	2,039	32.2	263	33.5	549	39.9	378	29.5
10-12	32,760	46.3	29,774	47.9	2,226	35.1	275	35.0	485	35.2	520	40.6
13+	22,315	31.6	20,787	33.4	1,193	18.8	160	20.4	175	12.7	259	20.2
UNKNOWN	166	0.2	155	0.2	4	0.1	2	0.3	5	0.4	1	0.1
TYPE OF DELIVERY												
SPONTANEOUS	48,730	68.9	42,053	67.6	4 961	78.3	583	74.2	1,133	82.3	953	74.5
BREECH	622	0.9	544	0.9	66	1.0	3	0.4	9	0.7	15	1.2
MANIPULATION	75	0.1	61	0.1	13	0.2	1	0.1			0	
FORCEPS	4,332	6.1	4,050	6.5	182	2.9	27	3.4	73	5.3	62	4.8
CESAREAN SECTION	12,755	18.0	11,506	18.5	995	15.7	145	18.4	109	7.9	214	16.7
OTHER SURGERY	2,379	3.4	2,251	3.6	73	1.2	20	2.5	35	2.5	34	2.7
OTHER	38	0.1	31	0.0	4	0.1	1	0.1	2	0.1	0	
UNKNOWN	1,779	2.5	1,715	2.8	43	0.7	6	0.8	15	1.1	2	0.2

NOTE: THERE WERE 7 OBSERVATIONS WHERE RACE WAS UNREPORTED; THESE WERE INCLUDED IN THE "OTHER" CATEGORY.

*** ALTHOUGH BIRTHS TO HISPANIC MOTHERS ARE TABULATED SEPARATELY, BIRTHS BY ANY RACE ALSO INCLUDE BIRTHS TO HISPANIC MOTHERS.

TABLE 1.3

LIVE BIRTHS BY SELECTED CHARACTERISTICS OF MOTHER
BY MARITAL STATUS OF MOTHER
WISCONSIN 1988

(RESIDENT DATA)

	TOTAL LIVE BIRTHS *		MARRIED **		UNMARRIED **		UNKNOWN **
	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER
PLURALITY							
SINGLE BIRTH	69,081	97.7	53,891	78.0	15,189	22.0	1
MULTIPLE BIRTH	1,629	2.3	1,307	80.2	322	19.8	
EDUCATION OF MOTHER							
ELEM. OR NONE	1,788	2.5	1,245	69.6	543	30.4	
SOME H.S.	9,611	13.6	3,689	38.4	5,922	61.6	
H.S. GRAD.	30,764	43.5	24,161	78.5	6,603	21.5	
1-4 YEARS COLLEGE	15,699	22.2	13,639	86.9	2,060	13.1	
4 YEARS COLLEGE	8,803	12.4	8,571	97.4	232	2.6	
5+ YEARS COLLEGE	3,927	5.6	3,818	97.2	109	2.8	
UNKNOWN	118	0.2	75	63.6	42	35.6	1
AGE OF MOTHER							
<15	133	0.2	3	2.3	130	97.7	
15-17	2,322	3.3	263	11.3	2,059	88.7	
18-19	4,485	6.3	1,364	30.4	3,121	69.6	
20-24	18,018	25.5	12,277	68.1	5,741	31.9	
25-29	25,267	35.7	22,466	88.9	2,801	11.1	
30-34	15,338	21.7	14,108	92.0	1,229	8.0	1
35-39	4,474	6.3	4,117	92.0	357	8.0	
40-44	630	0.9	564	89.5	66	10.5	
45+	39	0.1	35	89.7	4	10.3	
UNKNOWN	4	0.0	1	25.0	3	75.0	
LIVE BIRTH ORDER							
FIRST	26,491	37.5	18,446	69.6	8,045	30.4	
SECOND	23,894	33.8	20,099	84.1	3,795	15.9	
THIRD	12,452	17.6	10,445	83.9	2,007	16.1	
FOURTH	4,735	6.7	3,750	79.2	985	20.8	
FIFTH+	3,114	4.4	2,446	78.5	668	21.5	
UNKNOWN	24	0.0	12	50.0	11	45.8	1
BIRTH WEIGHT							
<1500 GRAMS	680	1.0	394	57.9	286	42.1	
1500-2499 GRAMS	3,177	4.5	2,010	63.3	1,167	36.7	
2500+ GRAMS	66,845	94.5	52,790	79.0	14,055	21.0	
UNKNOWN	8	0.0	4	50.0	3	37.5	1
MONTH PRENATAL CARE BEGAN							
1-3	58,590	82.9	48,795	83.3	9,795	16.7	
4-6	9,580	13.5	5,315	55.5	4,265	44.5	
7-9	1,934	2.7	837	43.3	1,097	56.7	
NONE	436	0.6	132	30.3	304	69.7	
UNKNOWN	170	0.2	119	70.0	50	29.4	1
NUMBER OF PRENATAL VISITS							
NONE	438	0.6	132	30.1	306	69.9	
1-4	2,234	3.2	932	41.7	1,302	58.3	
5-9	12,797	18.1	8,167	63.8	4,630	36.2	
10-12	32,760	46.3	26,789	81.8	5,971	18.2	
13+	22,315	31.6	19,059	85.4	3,256	14.6	
UNKNOWN	166	0.2	119	71.7	46	27.7	1
TYPE OF DELIVERY							
SPONTANEOUS	48,730	68.9	37,433	76.8	11,297	23.2	
BREECH	622	0.9	476	76.5	146	23.5	
MANIPULATION	75	0.1	56	74.7	19	25.3	
FORCEPS	4,332	6.1	3,480	80.3	852	19.7	
CESAREAN SECTION	12,755	18.0	10,275	80.6	2,480	19.4	
OTHER SURGERY	2,379	3.4	1,974	83.0	405	17.0	
OTHER	38	0.1	29	76.3	9	23.7	
UNKNOWN	1,779	2.5	1,475	82.9	303	17.0	1

* PERCENTAGES FOR "TOTAL LIVE BIRTHS" COLUMN ARE BASED ON COLUMN PERCENTAGES.
** PERCENTAGES FOR "MARRIED" AND "UNMARRIED" COLUMNS ARE BASED ON ROW PERCENTAGES.

TABLE 1.4

LIVE BIRTHS BY AGE OF MOTHER
BY BIRTH ORDER AND RACE OF MOTHER
WISCONSIN 1988

(RESIDENT DATA)

LIVE BIRTH ORDER - ALL RACES

AGE OF MOTHER	TOTAL	FIRST NUMBER	%	SECOND NUMBER	%	THIRD NUMBER	%	FOURTH NUMBER	%	FIFTH+ NUMBER	%
TOTAL	70,687	26,492	37.5	23,894	33.8	12,452	17.6	4,735	6.7	3,114	4.4
<15	133	130	97.7	3	2.3						
15-17	2,321	2,005	86.4	274	11.8	38	1.6	3	0.1	1	0.0
18-19	4,483	3,185	71.0	996	22.2	243	5.4	49	1.1	10	0.2
20-24	18,011	8,418	46.7	6,227	34.6	2,296	12.7	773	4.3	297	1.6
25-29	25,260	8,575	33.9	9,437	37.4	4,821	19.1	1,618	6.4	809	3.2
30-34	15,333	3,334	21.7	5,520	36.0	3,859	25.2	1,554	10.1	1,066	7.0
35-39	4,473	760	17.0	1,310	29.3	1,074	24.0	644	14.4	685	15.3
40-44	630	81	12.9	126	20.0	118	18.7	89	14.1	216	34.3
45+	39	3	7.7	1	2.6	3	7.7	2	5.1	30	76.9
UNKNOWN	4	1	25.0					3	75.0		

LIVE BIRTH ORDER - WHITE

AGE OF MOTHER	TOTAL	FIRST NUMBER	%	SECOND NUMBER	%	THIRD NUMBER	%	FOURTH NUMBER	%	FIFTH+ NUMBER	%
TOTAL	62,191	23,868	38.4	21,586	34.7	10,919	17.6	3,813	6.1	2,005	3.2
<15	36	35	97.2	1	2.8						
15-17	1,363	1,276	93.6	82	6.0	5	0.4				
18-19	3,249	2,576	79.3	589	18.1	80	2.5	4	0.1		
20-24	15,153	7,712	50.9	5,322	35.1	1,652	10.9	396	2.6	71	0.5
25-29	23,353	8,234	35.3	8,960	38.4	4,397	18.8	1,322	5.7	440	1.9
30-34	14,315	3,214	22.5	5,263	36.8	3,650	25.5	1,411	9.9	777	5.4
35-39	4,148	743	17.9	1,249	30.1	1,022	24.6	599	14.4	535	12.9
40-44	555	75	13.5	119	21.4	110	19.8	77	13.9	174	31.4
45+	16	2	12.5	1	6.2	3	18.8	2	12.5	8	50.0
UNKNOWN	3	1	33.3					2	66.7		

LIVE BIRTH ORDER - BLACK

AGE OF MOTHER	TOTAL	FIRST NUMBER	%	SECOND NUMBER	%	THIRD NUMBER	%	FOURTH NUMBER	%	FIFTH+ NUMBER	%
TOTAL	6,336	2,047	32.3	1,815	28.6	1,205	19.0	678	10.7	591	9.3
<15	86	84	97.7	2	2.3						
15-17	856	657	76.8	171	20.0	25	2.9	2	0.2	1	0.1
18-19	1,014	485	47.8	347	34.2	136	13.4	38	3.7	8	0.8
20-24	2,185	534	24.4	720	33.0	511	23.4	276	12.6	144	6.6
25-29	1,320	202	15.3	367	27.8	333	25.2	212	16.1	206	15.6
30-34	664	72	10.8	170	25.6	161	24.2	109	16.4	152	22.9
35-39	183	11	6.0	37	20.2	35	19.1	34	18.6	66	36.1
40-44	25	2	8.0	1	4.0	4	16.0	6	24.0	12	48.0
45+	2									2	100.0
UNKNOWN	1							1	100.0		

LIVE BIRTH ORDER - OTHER RACE

AGE OF MOTHER	TOTAL	FIRST NUMBER	%	SECOND NUMBER	%	THIRD NUMBER	%	FOURTH NUMBER	%	FIFTH+ NUMBER	%
TOTAL	2,160	577	26.7	493	22.8	328	15.2	244	11.3	518	24.0
<15	11	11	100.0								
15-17	102	72	70.6	21	20.6	8	7.8	1	1.0		
18-19	220	124	56.4	60	27.3	27	12.3	7	3.2	2	0.9
20-24	673	172	25.6	185	27.5	133	19.8	101	15.0	82	12.2
25-29	587	139	23.7	110	18.7	91	15.5	84	14.3	163	27.8
30-34	354	48	13.6	87	24.6	48	13.6	34	9.6	137	38.7
35-39	142	6	4.2	24	16.9	17	12.0	11	7.7	84	59.2
40-44	50	4	8.0	6	12.0	4	8.0	6	12.0	30	60.0
45+	21	1	4.8							20	95.2
UNKNOWN											

NOTE: THERE WERE 24 OBSERVATIONS WHERE LIVE BIRTH ORDER WAS UNREPORTED; THESE WERE NOT INCLUDED IN THIS TABLE.
THERE WERE 7 OBSERVATIONS WHERE RACE WAS UNREPORTED; THESE WERE INCLUDED IN THE "OTHER" CATEGORY.

Figure 4

FIRST BIRTHS TO MOTHERS BELOW AGE 18 AND BIRTHS FOURTH-ORDER AND ABOVE TO ALL MOTHERS, BY RACE OF MOTHER, WISCONSIN 1988

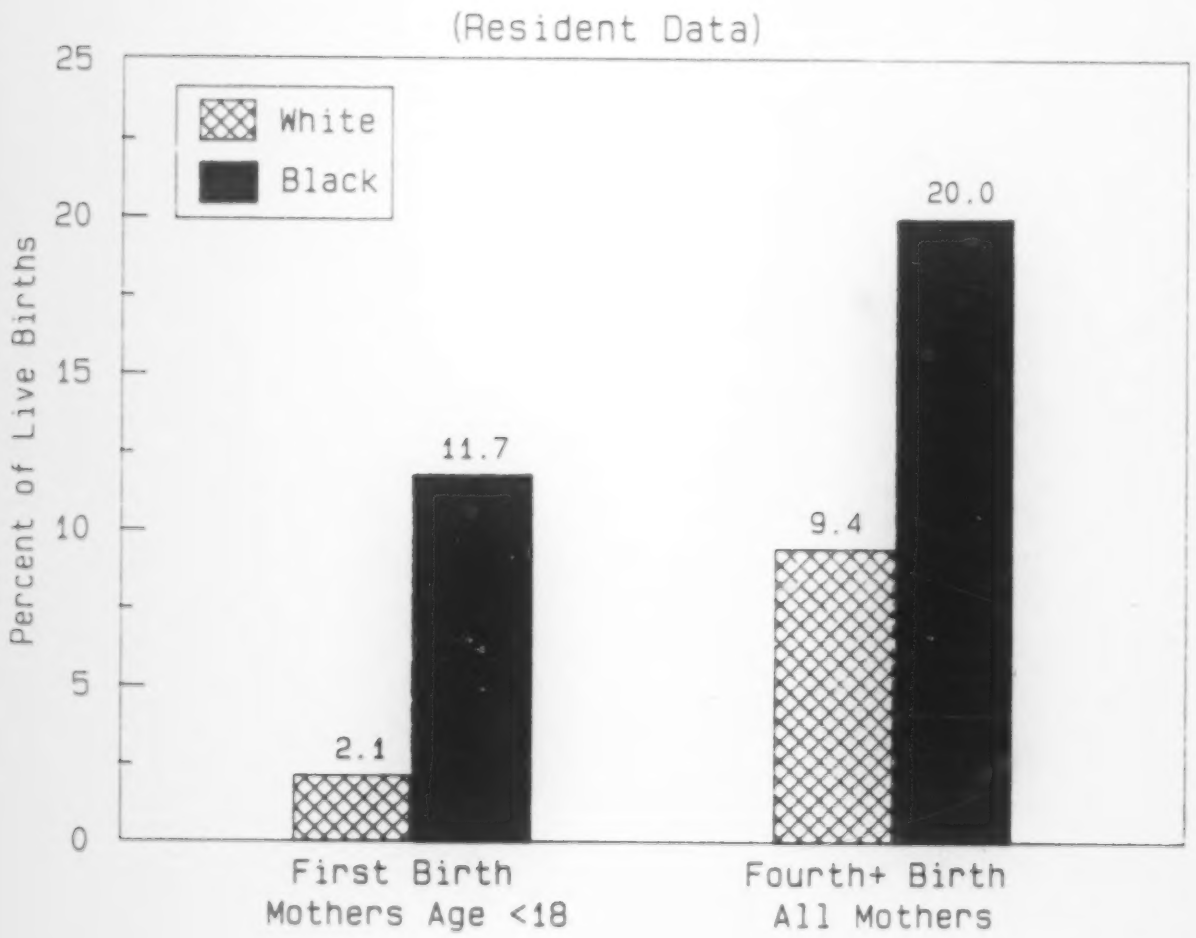


TABLE 1.5

LIVE BIRTHS OF CHILDREN BORN WITH REPORTED CONGENITAL ANOMALIES
BY SEX OF CHILD AND BY AGE OF MOTHER
WISCONSIN 1988

(RESIDENT DATA)

ANOMALIES	ICD-9	TOTAL	TOTAL MALE	TOTAL FEMALE	AGE OF MOTHER <18	18-19	20-24	25-29	30-34	35-39	40+
ANENCEPHALUS AND SIMILAR ANOMALIES	740	9	5	4	2		2	1	4		
SPINA BIFIDA	741	23	13	10	1	2	5	10	3	2	
OTHER ANOMALIES OF NERVOUS SYSTEM	742	24	13	11		4	4	11	4	1	
CONGENITAL ANOMALIES OF THE EYE	743	3	1	2	1			1	1		
ANOMALIES OF EAR, FACE AND NECK	744	26	15	11	2	3	6	6	5	3	1
BULBUS CORDIS AND CARDIAC SEPTAL	745	15	6	9			1	6	6	2	
OTHER ANOMALIES OF THE HEART	746	65	42	23	5	1	12	27	18	2	
ANOMALIES OF CIRCULATORY SYSTEM	747	31	13	18	1	3	7	12	7	1	
ANOMALIES OF RESPIRATORY SYSTEM	748	10	6	4			3	3	3	1	
CLEFT PALATE AND CLEFT LIP	749	90	59	31	4	9	23	28	18	7	1
OTHER OF ALIMENTARY TRACT	750	18	11	7	1		7	8	1	1	
OTHER OF DIGESTIVE SYSTEM	751	14	7	7	1		4	3	4	2	
ANOMALIES OF GENITAL ORGANS	752	111	105	6	2	6	31	44	23	5	
ANOMALIES OF URINARY SYSTEM	753	30	23	7	2	4	8	7	6	2	1
CONGEN. MUSCULOSKELETAL DEFORMITIES	754	97	45	52	1	2	30	32	21	9	2
CONGEN. ANOMALIES OF THE LIMBS	755	163	87	76	13	15	50	45	27	10	3
OTHER MUSCULOSKELETAL ANOMALIES	756	42	28	14	1	6	15	10	9	1	
ANOMALIES OF THE INTEGUMENT	757	179	88	91	6	17	51	55	38	12	
CHROMOSOMAL ANOMALIES	758	69	38	31		2	13	18	19	13	4
OTHER AND UNSPECIFIED CONGEN. ANOM.	759	19	11	8		2	3	8	6		
SUBTOTAL		1038	616	422	43	76	275	335	223	74	12
BENIGN NEOPLASM OF SKIN	216	17	9	8		1	6	5	3	2	
HAEMANGIOMA AND LYMPHANGIOMA, ANY	228	25	17	8		2	11	5	5	2	
NEOPLASM OF UNCERT. BEHAV. OF OTHER	238	2		2				1		1	
OTHER ABDOM. CAV HERNIA W/O OBSTR.	553	23	10	13	1	4	6	5	4	3	
PILONIDAL CYST	685	47	26	21	2	3	15	15	10	1	1
OTHER (*)		43	35	8	1	3	7	13	16	1	2
SUBTOTAL		157	97	60	4	13	45	44	38	10	3
TOTAL		1195	713	482	47	89	320	379	261	84	15

NOTE: THERE WERE 2 OBSERVATIONS WHERE SEX WAS UNREPORTED
THERE WERE 4 OBSERVATIONS WHERE AGE OF MOTHER WAS UNREPORTED.
THESE WERE NOT INCLUDED IN THIS TABLE.

* BALANCE OF CONGENITAL ANOMALIES OTHER THAN THOSE SPECIFICALLY CITED ABOVE.

TABLE 1.6

LIVE BIRTHS, FETAL DEATHS, DEATHS, AND INFANT DEATHS,
BY COUNTY, SELECTED MINOR CIVIL DIVISIONS AND BALANCE OF COUNTY
WISCONSIN, 1988

AREA	LIVE BIRTHS		FETAL DTHS	DEATHS		INFANT DEATHS	
	RESIDENCE	OCCURRENCE	RESIDENCE	RESIDENCE	OCCURRENCE	RESIDENCE	OCCURRENCE
STATE TOTAL	70,711	70,385	429	42,979	43,106	593	567
URBAN	52,620	68,316	336	31,853	36,915	445	538
BALANCE OF STATE	18,091	2,069	93	11,126	6,191	148	29
ADAMS	173	83	0	172	129	1	0
ASHLAND	256	476	2	216	271	3	1
ASHLAND (C)	134	474	1	134	242	1	1
BALANCE OF COUNTY	122	2	1	82	29	2	0
BARRON	571	626	2	441	420	3	3
BARRON (C)	39	116	0	56	91	1	1
RICE LAKE (C)	106	379	0	127	196	1	2
RICE LAKE (T)	40	1	0	14	2	0	0
BALANCE OF COUNTY	386	130	2	244	131	1	0
BAYFIELD	174	2	0	152	65	3	1
BROWN	2,847	3,804	12	1,285	1,597	18	31
ALLOUEZ (T)	87	0	0	34	16	0	0
ASHWAUBENON (V)	176	0	0	87	85	0	0
BELLEVUE (T)	101	0	1	15	4	0	0
DE PERE (C)	213	0	1	111	55	1	0
GREEN BAY (C)	1,643	3,798	10	819	1,354	10	29
HOBART (T)	46	1	0	11	2	0	0
HOWARD (V)	120	0	0	22	7	0	0
SUAMICO (T)	63	0	0	16	6	1	1
BALANCE OF COUNTY	398	5	0	170	68	6	1
BUFFALO	165	0	0	123	65	3	1
MONDAVI (C)	29	0	0	56	37	0	0
BALANCE OF COUNTY	136	0	0	67	28	3	1
BURNETT	142	89	1	154	110	2	0
CALUMET	536	108	2	244	187	4	1
APPLETON (C) (PT.)	176	0	1	32	10	2	0
BRILLION (C)	28	0	0	22	6	0	0
CHILTON (C)	47	105	1	54	109	1	1
HARRISON (T)	38	0	0	15	6	0	0
KIEL (C) (PT.)	10	1	0	2	0	0	0
MENASHA (C) (PT.)	1	0	0	0	0	0	0
NEW HOLSTEIN (C)	40	0	0	57	39	0	0
BALANCE OF COUNTY	196	2	0	62	17	1	0
CHIPPEWA	715	552	5	466	442	3	1
BLOOMER (C)	37	91	0	48	66	0	0
CHIPPEWA FALLS (C)	201	365	2	129	179	0	0
EAGLE POINT (T)	33	0	1	59	58	0	0
EAU CLAIRE (C) (PT.)	18	0	0	6	1	0	0
HALLIE (T)	61	0	0	14	3	0	0
LAFAYETTE (T)	51	0	0	12	6	0	0
BALANCE OF COUNTY	314	96	2	198	129	3	1
CLARK	518	109	4	330	236	1	0
NEILLSVILLE (C)	33	81	0	71	102	1	0
BALANCE OF COUNTY	485	28	4	259	134	0	0
COLUMBIA	579	310	6	488	436	3	3
COLUMBUS (C)	43	75	0	53	97	1	1
PORTAGE (C)	111	227	0	102	152	0	2
WISCONSIN DELLS (C) (PT.)	33	0	1	34	29	0	0
BALANCE OF COUNTY	392	8	5	299	158	2	0
CRAWFORD	241	166	0	183	183	2	3
PRAIRIE DU CHIEN (C)	79	164	0	83	141	0	2
BALANCE OF COUNTY	162	2	0	100	42	2	1

TABLE 1.6

LIVE BIRTHS, FETAL DEATHS, DEATHS, AND INFANT DEATHS,
BY COUNTY, SELECTED MINOR CIVIL DIVISIONS AND BALANCE OF COUNTY
WISCONSIN, 1988

AREA	LIVE BIRTHS		FETAL DTHS	DEATHS		INFANT DEATHS	
	RESIDENCE	OCCURRENCE	RESIDENCE	RESIDENCE	OCCURRENCE	RESIDENCE	OCCURRENCE
DANE	5,070	6,037	31	2,176	2,914	30	63
BURKE (T)	25	0	0	12	20	0	0
COTTAGE GROVE (T)	36	0	0	10	3	0	0
DE FOREST (V)	91	0	0	13	2	1	0
DUNN (T)	60	0	0	18	4	0	0
FITCHBURG (C)	127	1	0	22	10	0	0
MADISON (C)	2,665	5,999	22	1,228	2,087	14	59
MADISON (T)	33	0	0	7	6	0	0
MARSHALL (V)	43	0	0	17	9	0	0
MCFARLAND (V)	77	1	1	30	4	1	0
MIDDLETON (C)	201	0	2	75	30	2	0
MIDDLETON (T)	47	0	0	13	10	0	0
MONONA (C)	99	0	0	57	11	0	0
MOUNT HOREB (V)	56	1	0	46	54	0	0
OREGON (V)	79	0	0	35	21	1	0
PLEASANT SPRINGS (T)	30	1	0	12	2	0	0
STOUGHTON (C)	154	30	0	141	194	3	1
SUN PRAIRIE (C)	237	0	1	97	48	0	0
VERONA (C)	92	0	2	41	33	3	2
WAUNAKEE (V)	122	0	0	46	51	0	0
WESTPORT (T)	23	0	0	5	8	0	0
WINDSOR (T)	58	0	2	11	5	0	0
BALANCE OF COUNTY	715	4	1	240	302	5	1
DODGE	1,020	1,096	6	732	784	5	6
BEAVER DAM (C)	180	448	2	192	263	0	4
BEAVER DAM (T)	44	0	0	18	5	1	0
HORICON (C)	45	0	0	28	1	0	0
MAYVILLE (C)	61	0	0	39	16	0	0
WATERTOWN (C) (PT.)	94	461	2	89	195	0	2
WAUPUN (C) (PT.)	75	183	0	61	105	1	0
BALANCE OF COUNTY	521	4	2	305	199	3	0
DOOR	317	220	0	248	226	0	0
SEVASTOPOL (T)	26	0	0	15	7	0	0
STURGEON BAY (C)	137	220	0	111	152	0	0
BALANCE OF COUNTY	154	0	0	122	67	0	0
DOUGLAS	532	203	2	478	370	6	5
SUPERIOR (C)	366	202	2	353	299	3	3
BALANCE OF COUNTY	166	1	0	125	71	3	2
DUNN	436	367	1	281	220	2	1
MENOMONIE (C)	143	364	0	117	154	1	1
MENOMONIE (T)	40	0	0	14	6	0	0
BALANCE OF COUNTY	253	3	1	150	60	1	0
EAU CLAIRE	1,237	1,771	3	723	891	12	5
ALTOONA (C)	95	0	0	52	18	1	0
EAU CLAIRE (C) (PT.)	829	1,751	2	491	787	11	5
SEYMOUR (T)	32	0	0	15	9	0	0
UNION (T)	39	0	0	10	2	0	0
WASHINGTON (T)	70	0	0	22	7	0	0
BALANCE OF COUNTY	172	20	1	133	68	0	0
FLORENCE	57	0	0	45	26	1	0
FOND DU LAC	1,248	1,399	8	857	813	13	4
FOND DU LAC (C)	575	1,262	4	448	591	6	4
FOND DU LAC (T)	19	0	0	6	4	0	0
NORTH FOND DU LAC (V)	70	0	0	24	10	0	0
RIPON (C)	70	136	2	88	99	1	0
TAYCHEEDAH (T)	44	0	0	16	6	0	0
WAUPUN (C) (PT.)	33	0	0	32	8	2	0
BALANCE OF COUNTY	437	1	2	243	95	4	0
FOREST	136	0	0	111	66	3	2
GRANT	626	420	4	467	407	1	0
BOSCOBEL (C)	33	81	0	51	75	1	0
LANCASTER (C)	73	176	0	63	95	0	0
PLATTEVILLE (C)	82	158	1	72	89	0	0
BALANCE OF COUNTY	438	5	3	281	148	0	0

TABLE 1.6

LIVE BIRTHS, FETAL DEATHS, DEATHS, AND INFANT DEATHS,
BY COUNTY, SELECTED MINOR CIVIL DIVISIONS AND BALANCE OF COUNTY
WISCONSIN, 1988

AREA	LIVE BIRTHS		FETAL DTHS	DEATHS		INFANT DEATHS	
	RESIDENCE	OCCURRENCE	RESIDENCE	RESIDENCE	OCCURRENCE	RESIDENCE	OCCURRENCE
GREEN	404	507	3	316	347	1	0
BRODHEAD (C)	46	0	0	28	6	0	0
MONROE (C)	142	506	3	129	206	0	0
BALANCE OF COUNTY	216	1	0	159	135	1	0
GREEN LAKE	237	251	3	256	225	5	2
BERLIN (C) (PT.)	69	243	0	83	152	2	2
BALANCE OF COUNTY	168	8	3	173	73	3	0
IOWA	306	206	1	184	147	3	3
DODGEVILLE (C)	58	204	0	47	73	0	0
BALANCE OF COUNTY	248	2	1	137	74	3	3
IRON	66	0	2	84	35	1	0
JACKSON	249	219	0	185	161	4	2
BLACK RIVER FALLS (C)	41	217	0	77	127	0	2
BALANCE OF COUNTY	208	2	0	108	34	4	0
JEFFERSON	849	314	5	537	387	8	3
FT. ATKINSON (C)	133	314	1	91	209	2	1
IXONIA (T)	36	0	0	14	0	0	0
JEFFERSON (C)	90	0	2	63	9	1	0
JEFFERSON (T)	19	0	0	51	101	0	0
KOSHKONONG (T)	28	0	0	16	3	0	0
LAKE MILLS (C)	59	0	0	36	24	0	0
WATERLOO (C)	40	0	0	21	3	0	0
WATERTOWN (C) (PT.)	178	0	0	112	15	3	0
WHITEWATER (C) (PT.)	17	0	0	4	0	0	0
BALANCE OF COUNTY	249	0	2	129	23	2	2
JUNEAU	279	146	0	253	167	2	1
MAUSTON (C)	44	142	0	51	83	0	1
BALANCE OF COUNTY	235	4	0	202	84	2	0
KENOSHA	1,909	1,467	14	1,146	1,034	15	6
BRISTOL (T)	26	0	0	28	7	0	0
KENOSHA (C)	1,324	1,464	11	808	891	11	5
PLEASANT PRAIRIE (T)	126	1	0	81	39	0	0
SALEM (T)	79	1	0	49	16	3	0
SOMERS (T)	76	0	0	56	29	0	0
TWIN LAKES (V)	57	0	0	51	10	0	0
WHEATLAND (T)	39	0	0	21	7	0	0
BALANCE OF COUNTY	182	1	3	52	35	1	1
KEWAUNEE	227	70	0	161	119	2	0
ALGOMA (C)	40	0	0	42	27	0	0
KEWAUNEE (C)	26	69	0	51	75	0	0
BALANCE OF COUNTY	161	1	0	68	17	2	0
LA CROSSE	1,362	2,528	9	828	1,220	11	29
CAMPBELL (T)	49	0	0	18	6	2	0
HOLMEN (V)	44	0	0	16	1	0	0
LA CROSSE (C)	713	2,528	5	555	1,069	5	29
ONALASKA (C)	175	0	0	74	56	3	0
ONALASKA (T)	85	0	0	24	10	0	0
SHELBY (T)	47	0	1	12	5	0	0
WEST SALEM (V)	51	0	0	62	54	0	0
BALANCE OF COUNTY	198	0	3	67	19	1	0
LANGLADE	280	263	4	226	203	4	2
ANTIGO (C)	140	263	3	119	161	1	1
BALANCE OF COUNTY	140	0	1	107	42	3	1
LINCOLN	315	186	4	280	250	2	0
MERRILL (C)	123	142	1	146	149	2	0
MERRILL (T)	36	0	0	11	7	0	0
TOMAHAWK (C)	45	43	0	62	85	0	0
BALANCE OF COUNTY	111	1	3	61	9	0	0

TABLE 1.6

LIVE BIRTHS, FETAL DEATHS, DEATHS, AND INFANT DEATHS,
BY COUNTY, SELECTED MINOR CIVIL DIVISIONS AND BALANCE OF COUNTY
WISCONSIN, 1988

AREA	LIVE BIRTHS		FETAL DTHS	DEATHS		INFANT DEATHS	
	RESIDENCE	OCCURRENCE	RESIDENCE	RESIDENCE	OCCURRENCE	RESIDENCE	OCCURRENCE
MANITOWOC	1,040	846	5	745	673	8	5
KIEL (C) (PT.)	34	0	0	25	3	0	0
MANITOWOC (C)	431	533	3	408	486	5	3
MANITOWOC RAPIDS (T)	27	1	0	28	17	0	0
TWO RIVERS (C)	164	309	0	126	115	2	2
BALANCE OF COUNTY	384	3	2	158	52	1	0
MARATHON	1,620	1,547	14	879	821	12	7
KRONENWETTER (T)	59	1	0	15	4	1	0
MARSHFIELD (C) (PT.)	7	0	0	8	3	0	0
MOSINEE (C)	65	0	0	32	9	1	0
RIB MOUNTAIN (T)	59	0	0	23	11	0	0
ROTHSCHILD (V)	38	0	0	21	4	0	0
STETTIN (T)	20	0	1	10	2	0	0
WAUSAU (C)	567	1,543	8	414	643	4	6
WESTON (T)	155	0	0	69	60	0	0
BALANCE OF COUNTY	650	[illegible]	5	287	85	6	1
MARINETTE	494	490	1	503	480	7	1
MARINETTE (C)	158	490	1	179	274	2	1
PESHTIGO (C)	44	0	0	68	109	1	0
PESHTIGO (T)	50	0	0	28	4	0	0
BALANCE OF COUNTY	242	0	0	228	93	4	0
MARQUETTE	141	9	1	148	63	1	0
MENOMINEE	113	1	1	35	17	2	1
MENOMINEE (T)	87	1	0	15	10	1	0
BALANCE OF COUNTY	26	0	1	20	7	1	1
MILWAUKEE	16,358	18,400	138	9,449	10,464	174	235
BAYSIDE (V) (PT.)	40	0	0	50	31	0	0
BROWN DEER (V)	141	1	0	69	11	0	0
CUDAHY (C)	236	293	1	165	343	3	5
FOX POINT (V)	87	0	0	55	12	2	0
FRANKLIN (C)	284	0	6	105	12	2	0
GLENDALE (C)	129	0	0	287	429	0	0
GREENDALE (V)	159	1	1	92	8	0	0
GREENFIELD (C)	350	0	1	387	209	4	0
HALES CORNERS (V)	107	0	0	62	5	2	0
MILWAUKEE (C) (PT.)	12,185	15,526	120	6,116	7,258	148	202
OAK CREEK (C)	251	1	1	104	15	1	0
SHOREWOOD (V)	166	1	0	143	56	0	0
SOUTH MILWAUKEE (C)	286	0	2	210	65	0	0
ST. FRANCIS (C)	110	1	1	80	21	3	0
WAUWATOSA (C)	672	848	3	636	1,151	1	23
WEST ALLIS (C)	863	1,726	1	744	819	8	5
WEST MILWAUKEE (V)	58	0	0	41	5	0	0
WHITEFISH BAY (V)	218	1	1	94	10	0	0
BALANCE OF COUNTY	16	1	0	9	4	0	0
MONROE	569	378	4	354	360	5	3
SPARTA (C)	123	150	1	94	106	1	1
TOMAH (C)	96	200	0	93	174	0	2
BALANCE OF COUNTY	350	28	3	167	80	4	0
OCONTO	433	174	0	314	257	2	1
LITTLE SUAMICO (T)	54	0	0	12	2	0	0
OCONTO (C)	67	43	0	66	63	0	0
OCONTO FALLS (C)	34	130	0	47	107	1	1
BALANCE OF COUNTY	278	1	0	189	85	1	0
ONEIDA	387	717	2	350	466	3	4
MINOCQUA (T)	46	0	0	22	5	1	0
PELICAN (T)	36	1	0	20	8	0	0
PINE LAKE (T)	21	0	0	20	4	1	0
RHINELANDER (C)	110	501	0	151	249	1	3
BALANCE OF COUNTY	174	215	2	137	200	0	1

TABLE 1.6

LIVE BIRTHS, FETAL DEATHS, DEATHS, AND INFANT DEATHS,
BY COUNTY, SELECTED MINOR CIVIL DIVISIONS AND BALANCE OF COUNTY
WISCONSIN, 1988

AREA	LIVE BIRTHS		FETAL DTHS	DEATHS		INFANT DEATHS	
	RESIDENCE	OCCURRENCE	RESIDENCE	RESIDENCE	OCCURRENCE	RESIDENCE	OCCURRENCE
OUTAGAMIE	2,268	2,671	10	981	1,104	17	12
APPLETON (C) (PT.)	908	2,373	6	467	749	8	11
CENTER (T)	32	0	0	8	5	0	0
FREEDOM (T)	59	0	0	13	2	1	0
GRAND CHUTE (T)	198	1	0	67	38	1	0
GREENVILLE (T)	70	0	0	12	6	0	0
KAUKAUNA (C)	235	135	1	96	73	2	1
KIMBERLY (V)	76	0	0	34	9	3	0
LITTLE CHUTE (V)	171	0	1	72	59	1	0
NEW LONDON (C) (PT.)	30	160	0	19	57	0	0
ONEIDA (T)	62	1	1	28	22	0	0
SEYMOUR (C)	44	0	0	40	37	0	0
BALANCE OF COUNTY	383	1	1	125	47	1	0
OZAUKEE	947	244	2	449	300	7	0
CEDARBURG (C)	148	0	0	106	52	0	0
CEDARBURG (T)	19	1	0	4	1	0	0
GRAFTON (T)	18	1	0	8	1	0	0
GRAFTON (V)	154	1	0	36	6	0	0
MEQON (C)	236	5	1	127	121	1	0
PORT WASHINGTON (C)	131	232	0	68	100	1	0
SAUKVILLE (V)	83	2	0	15	4	2	0
THEINSVILLE (V)	41	0	0	35	5	0	0
BALANCE OF COUNTY	117	2	1	50	10	3	0
PEPIN	98	96	0	89	86	1	0
PIERCE	452	0	1	238	146	5	0
ELLSWORTH (V)	42	0	0	46	45	1	0
PRESCOTT (C)	58	0	0	28	23	2	0
RIVER FALLS (C) (PT.)	94	0	0	24	5	0	0
BALANCE OF COUNTY	258	0	1	140	73	2	0
POLK	466	439	3	356	330	6	2
AMERY (C)	36	140	0	83	116	0	2
BALANCE OF COUNTY	430	299	3	273	214	6	0
PORTAGE	850	891	7	421	355	3	1
HULL (T)	83	1	0	13	4	1	0
PLOVER (V)	121	0	2	28	4	1	0
STEVENS POINT (C)	254	864	2	199	231	0	1
STOCKTON (T)	36	2	2	8	4	0	0
BALANCE OF COUNTY	356	24	1	173	112	1	0
PRICE	209	157	0	190	165	2	2
PARK FALLS (C)	47	154	0	61	106	0	2
BALANCE OF COUNTY	162	3	0	129	59	2	0
RACINE	2,640	2,752	22	1,328	1,185	31	15
BURLINGTON (C) (PT.)	137	572	0	94	170	3	3
BURLINGTON (T)	61	0	2	33	9	0	0
CALEDONIA (T)	247	0	1	106	25	4	0
DOVER (T)	31	1	0	16	4	1	0
MT. PLEASANT (T)	158	0	[illegible]	154	98	2	0
NORWAY (T)	57	0	0	20	10	0	0
RACINE (C)	1,591	2,179	12	760	835	18	12
RAYMOND (T)	27	0	0	13	6	0	0
STURDEVANT (V)	67	0	0	15	4	0	0
UNION GROVE (V)	58	0	1	28	3	1	0
WATERFORD (T)	38	0	0	13	3	0	0
YORKVILLE (T)	35	0	0	20	7	0	0
BALANCE OF COUNTY	133	0	4	56	11	2	0
RICHLAND	219	211	0	187	171	1	0
RICHLAND CENTER (C)	56	210	0	55	99	0	0
BALANCE OF COUNTY	163	1	0	132	72	1	0

TABLE 1.6

LIVE BIRTHS, FETAL DEATHS, DEATHS, AND INFANT DEATHS,
BY COUNTY, SELECTED MINOR CIVIL DIVISIONS AND BALANCE OF COUNTY
WISCONSIN, 1988

AREA	LIVE BIRTHS		FETAL DTHS	DEATHS		INFANT DEATHS	
	RESIDENCE	OCCURRENCE	RESIDENCE	RESIDENCE	OCCURRENCE	RESIDENCE	OCCURRENCE
ROCK	2,079	2,125	17	1,319	1,248	15	10
BELOIT (C)	648	839	7	382	463	4	5
BELOIT (T)	56	0	0	51	13	1	0
EDGERTON (C)	69	49	1	63	86	0	0
EVANSVILLE (C)	56	0	0	54	35	0	0
FULTON (T)	26	0	0	13	3	0	0
JANESVILLE (C)	800	1,234	5	409	410	7	5
JANESVILLE (T)	23	1	0	75	89	1	0
MILTON (C)	59	1	2	32	5	1	0
ROCK (T)	33	0	0	87	79	1	0
TURTLE (T)	17	0	0	14	6	0	0
BALANCE OF COUNTY	292	1	2	139	59	0	0
RUSK	202	181	1	161	157	1	1
LADYSMITH (C)	58	179	1	83	127	0	0
BALANCE OF COUNTY	144	2	0	78	30	1	1
ST.CROIX	740	680	1	367	372	6	2
HUDSON (C)	146	200	1	56	82	2	2
HUDSON (T)	35	0	0	5	1	0	0
NEW RICHMOND (C)	103	179	0	41	53	1	0
NORTH HUDSON (V)	19	0	0	11	3	1	0
RIVER FALLS (C) (PT.)	29	205	0	52	92	0	0
TROY (T)	28	0	0	4	1	0	0
BALANCE OF COUNTY	380	96	0	198	140	2	0
SAUK	663	663	3	470	469	5	3
BARABOO (C)	151	289	1	125	159	1	2
REEDSBURG (C)	80	196	1	62	68	0	0
SAUK CITY (V)	45	0	0	40	56	1	0
WISCONSIN DELLS (C) (PT.)	14	0	0	0	0	0	0
BALANCE OF COUNTY	373	178	1	243	186	3	1
SAWYER	196	99	1	173	136	4	3
SHAWANO	531	388	4	426	337	7	2
SHAWANO (C)	110	383	1	131	215	3	2
WESCOTT (T)	30	0	0	27	7	0	0
BALANCE OF COUNTY	391	5	3	268	115	4	0
SHEBOYGAN	1,397	1,437	4	939	884	11	5
HOLLAND (T)	30	0	0	12	3	1	0
LIMA (T)	30	1	0	18	16	0	0
PLYMOUTH (C)	75	104	0	64	78	0	0
PLYMOUTH (T)	24	0	0	51	48	1	0
SHEBOYGAN (C)	739	1,328	3	575	675	7	4
SHEBOYGAN (T)	36	0	0	14	4	0	0
SHEBOYGAN FALLS (C)	64	1	0	54	9	0	0
WILSON (T)	35	0	0	11	4	0	0
BALANCE OF COUNTY	364	3	1	140	47	2	1
TAYLOR	309	273	1	183	133	3	1
MEDFORD (C)	66	269	1	62	86	0	1
BALANCE OF COUNTY	243	4	0	121	47	3	0
TREMPEALEAU	316	79	1	273	204	3	0
VERNON	344	341	6	301	287	1	1
VIROQUA (C)	36	208	1	78	116	0	0
BALANCE OF COUNTY	308	133	5	223	171	1	1
VILAS	190	62	0	224	154	2	1
ARBOR VITAE (T)	20	0	0	17	5	0	0
BALANCE OF COUNTY	170	62	0	207	149	2	1

TABLE 1.6

LIVE BIRTHS, FETAL DEATHS, DEATHS, AND INFANT DEATHS,
BY COUNTY, SELECTED MINOR CIVIL DIVISIONS AND BALANCE OF COUNTY
WISCONSIN, 1988

AREA	LIVE BIRTHS		FETAL DTHS	DEATHS		INFANT DEATHS	
	RESIDENCE	OCCURRENCE	RESIDENCE	RESIDENCE	OCCURRENCE	RESIDENCE	OCCURRENCE
WALWORTH	995	519	3	690	596	6	1
BLOOMFIELD (T)	43	0	0	25	7	0	0
DELAVAN (C)	102	0	0	61	33	1	0
DELAVAN (T)	69	0	0	44	10	0	0
EAST TROY (T)	36	0	0	14	4	1	0
EAST TROY (V)	56	0	0	26	19	1	0
ELKHORN (C)	101	0	1	54	39	2	0
GENEVA (T)	44	514	0	82	327	0	0
LAKE GENEVA (C)	88	1	1	59	32	0	0
LYONS (T)	35	0	0	24	6	0	0
SUGAR CREEK (T)	42	0	0	21	3	0	0
WHITE WATER (C) (PT.)	55	1	0	74	31	0	0
BALANCE OF COUNTY	324	3	1	206	85	1	1
WASHBURN	158	192	0	167	169	1	1
SPOONER (C)	38	141	0	55	94	1	1
BALANCE OF COUNTY	120	51	0	112	75	0	0
WASHINGTON	1,315	857	8	664	530	9	3
ADDISON (T)	55	0	0	18	2	0	0
BARTON (T)	27	0	0	13	2	0	0
ERIN (T)	17	0	0	11	1	0	0
GERMANTOWN (V)	174	0	1	60	10	0	0
HARTFORD (C)	151	262	0	82	143	0	1
HARTFORD (T)	38	0	0	17	6	0	0
JACKSON (T)	29	0	0	12	9	0	0
POLK (T)	35	0	0	11	2	0	0
RICHFIELD (T)	73	2	1	30	7	0	0
TRENTON (T)	46	1	1	14	2	0	0
WEST BEND (C)	388	588	1	189	247	3	2
WEST BEND (T)	44	2	0	109	87	0	0
BALANCE OF COUNTY	238	2	4	98	12	6	0
WAUKESHA	3,940	4,028	10	1,945	1,770	20	10
BROOKFIELD (C)	373	906	0	227	250	2	3
BROOKFIELD (T)	47	0	0	9	6	0	0
DELAFIELD (C)	64	0	1	37	17	1	0
DELAFIELD (T)	41	0	0	15	8	0	0
ELM GROVE (V)	56	0	0	65	26	0	0
GENESSE (T)	49	0	0	20	8	1	0
HARTLAND (V)	145	0	1	33	6	1	0
LISBON (T)	93	0	0	34	9	2	0
MENOMONEE FALLS (V)	348	1,049	1	172	283	0	2
MERTON (T)	69	0	0	31	9	1	0
MUKWONAGO (T)	73	0	0	11	4	0	0
MUKWONAGO (V)	88	0	0	40	9	1	0
MUSKEGO (C)	214	0	0	118	56	1	0
NEW BERLIN (C)	375	1	1	158	44	4	0
OCONOMOWOC (C)	171	524	1	146	220	0	2
OCONOMOWOC (T)	88	0	0	31	9	0	0
OTTAWA (T)	29	0	0	12	2	1	0
PEWAUKEE (T)	81	1	0	80	76	0	0
PEWAUKEE (V)	107	1	0	95	87	0	0
SUMMIT (T)	44	1	0	32	16	0	0
SUSSEX (V)	90	0	1	22	4	1	0
VERNON (T)	74	0	0	20	5	0	0
WAUKESHA (C)	914	1,542	3	378	538	3	2
WAUKESHA (T)	72	2	0	40	19	0	1
BALANCE OF COUNTY	235	1	1	119	59	1	0
WAUPACA	603	329	4	614	529	5	1
CLINTONVILLE (C)	51	143	0	80	90	0	1
FARMINGTON (T)	42	2	0	126	75	0	0
NEW LONDON (C) (PT.)	81	0	1	49	27	0	0
WAUPACA (C)	65	171	1	73	159	2	0
BALANCE OF COUNTY	364	13	2	286	178	3	0
WAUSHARA	231	46	1	214	128	3	0
BERLIN (C) (PT.)	1	0	0	1	0	0	0
BALANCE OF COUNTY	230	46	1	213	128	3	0

TABLE 1.6

LIVE BIRTHS, FETAL DEATHS, DEATHS, AND INFANT DEATHS,
BY COUNTY, SELECTED MINOR CIVIL DIVISIONS AND BALANCE OF COUNTY
WISCONSIN, 1988

AREA	LIVE BIRTHS		FETAL DTHS	DEATHS		INFANT DEATHS	
	RESIDENCE	OCCURRENCE	RESIDENCE	RESIDENCE	OCCURRENCE	RESIDENCE	OCCURRENCE
WINNEBAGO	1,901	2,142	13	1,218	1,241	20	31
ALGOMA (T)	34	0	1	12	3	0	0
APPLETON (C) (PT.)	8	0	0	10	2	0	0
MENASHA (C) (PT.)	248	0	3	101	34	2	0
MENASHA (T)	187	1	0	84	63	1	0
NEENAH (C)	372	1,395	3	194	372	6	26
NEENAH (T)	26	1	1	12	4	0	0
OMRO (C)	39	0	0	44	33	2	0
OSHKOSH (C)	707	740	5	521	586	8	5
OSHKOSH (T)	40	2	0	103	89	0	0
BALANCE OF COUNTY	240	3	0	137	55	1	0
WOOD	1,005	1,829	5	627	1,048	6	23
GRAND RAPIDS (T)	79	3	0	27	2	0	0
MARSHFIELD (C) (PT.)	259	1,243	2	182	697	2	23
NEKOOSA (C)	36	0	1	24	4	1	0
SARATOGA (T)	67	1	0	18	4	0	0
WISCONSIN RAPIDS (C)	286	582	1	215	219	2	0
BALANCE OF COUNTY	278	0	1	161	122	1	0

TABLE 1.7

LIVE BIRTHS BY AGE OF MOTHER
BY BIRTH WEIGHT AND RACE OF MOTHER
WISCONSIN 1988

(RESIDENT DATA)

BIRTH WEIGHT - ALL RACES

AGE OF MOTHER	TOTAL	<1500 GRAMS		1500-2499 GRAMS		2500+ GRAMS	
		NUMBER	%	NUMBER	%	NUMBER	%
TOTAL	70,702	680	100.0	3,177	100.0	66,845	100.0
<15	133	7	1.0	9	0.3	117	0.2
15-17	2,322	45	6.6	166	5.2	2,111	3.2
18-19	4,483	59	8.7	249	7.8	4,175	6.2
20-24	18,017	175	25.7	886	27.9	16,956	25.4
25-29	25,266	209	30.7	1,014	31.9	24,043	36.0
30-34	15,334	137	20.1	640	20.1	14,557	21.8
35-39	4,474	36	5.3	182	5.7	4,256	6.4
40-44	630	12	1.8	30	0.9	588	0.9
45+	39			1	0.0	38	0.1
UNKNOWN	4					4	0.0

BIRTH WEIGHT - WHITE

AGE OF MOTHER	TOTAL	<1500 GRAMS		1500-2499 GRAMS		2500+ GRAMS	
		NUMBER	%	NUMBER	%	NUMBER	%
TOTAL	62,204	500	100.0	2,414	100.0	59,290	100.0
<15	36	2	0.4	1	0.0	33	0.1
15-17	1,364	21	4.2	81	3.4	1,262	2.1
18-19	3,249	35	7.0	137	5.7	3,077	5.2
20-24	15,159	113	22.6	636	26.3	14,410	24.3
25-29	23,357	172	34.4	831	34.4	22,354	37.7
30-34	14,316	118	23.6	547	22.7	13,651	23.0
35-39	4,149	29	5.8	153	6.3	3,967	6.7
40-44	555	10	2.0	27	1.1	518	0.9
45+	16			1	0.0	15	0.0
UNKNOWN	3					3	0.0

BIRTH WEIGHT - BLACK

AGE OF MOTHER	TOTAL	<1500 GRAMS		1500-2499 GRAMS		2500+ GRAMS	
		NUMBER	%	NUMBER	%	NUMBER	%
TOTAL	6,337	160	100.0	679	100.0	5,498	100.0
<15	86	5	3.1	8	1.2	73	1.3
15-17	856	23	14.4	76	11.2	757	13.8
18-19	1,014	20	12.5	102	15.0	892	16.2
20-24	2,185	55	34.4	221	32.5	1,909	34.7
25-29	1,321	34	21.3	167	24.6	1,120	20.4
30-34	664	19	11.9	77	11.3	568	10.3
35-39	183	4	2.5	26	3.8	153	2.8
40-44	25			2	0.3	23	0.4
45+	2					2	0.0
UNKNOWN	1					1	0.0

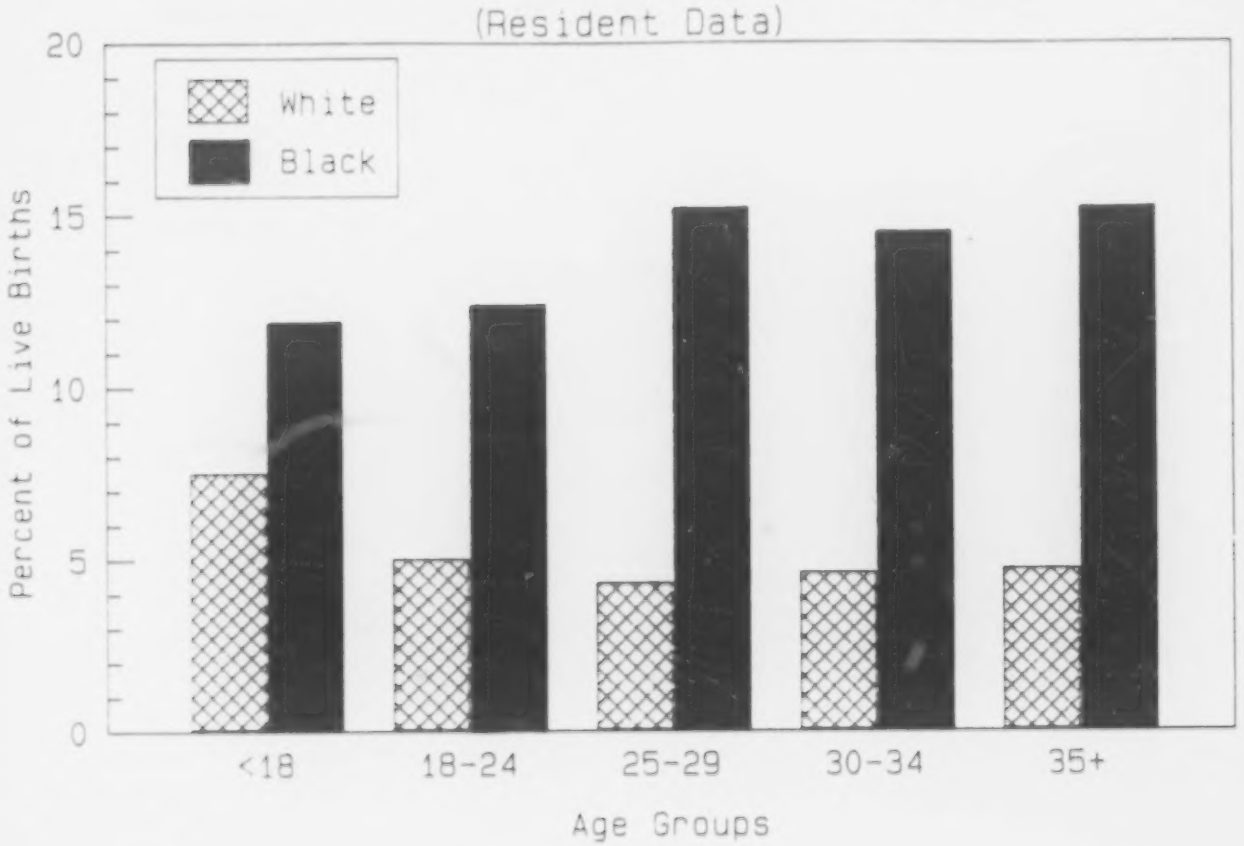
BIRTH WEIGHT - OTHER RACE

AGE OF MOTHER	TOTAL	<1500 GRAMS		1500-2499 GRAMS		2500+ GRAMS	
		NUMBER	%	NUMBER	%	NUMBER	%
TOTAL	2,161	20	100.0	84	100.0	2,057	100.0
<15	11					11	0.5
15-17	102	1	5.0	9	10.7	92	4.5
18-19	220	4	20.0	10	11.9	206	10.0
20-24	673	7	35.0	29	34.5	637	31.0
25-29	588	3	15.0	16	19.0	569	27.7
30-34	354			16	19.0	338	16.4
35-39	142	3	15.0	3	3.6	136	6.6
40-44	50	2	10.0	1	1.2	47	2.3
45+	21					21	1.0
UNKNOWN							

NOTE: THERE WERE 8 OBSERVATIONS WHERE BIRTH WEIGHT WAS UNREPORTED; THESE WERE NOT INCLUDED IN THIS TABLE.
THERE WERE 7 OBSERVATIONS WHERE RACE WAS UNREPORTED; THESE WERE INCLUDED IN THE "OTHER" CATEGORY.

Figure 5

LOW BIRTHWEIGHT INFANTS, BY MOTHER'S RACE BY AGE OF MOTHER, WISCONSIN 1988



MORTALITY

1988 MORTALITY STATISTICS

Total Deaths: Deaths of Wisconsin residents totaled 42,979 in 1988, a two percent increase over 1987 (42,074 deaths). The 1988 death rate was 8.9 per 1,000 population. Only small fluctuations have occurred in the Wisconsin annual death rate since 1975, with rates ranging from 8.4 to 8.9. Prior to 1975, the annual death rate had never fallen below 9.0 (Table R 1.6).

Infant Deaths: Total resident infant deaths numbered 598 in 1988, a decrease of 2.1 percent from the 611 recorded in 1987. The 1988 infant death rate of 8.5 per 1,000 live births is the lowest recorded for Wisconsin, and compares with rates of 8.6 per 1,000 live births in 1987 and 9.2 in both 1985 and 1986. Over the past six decades, the infant death rate has declined substantially. The rate equaled 55.6 in 1930, 36.0 in 1940, 25.5 in 1950, 21.8 in 1960, 16.9 in 1970, and 10.2 in 1980 (Table R 1.6).

Just over half (51 percent) of all infant deaths in 1988 occurred during the first week of life while 40 percent occurred in the post neonatal period (age 28 to 364 days). Three-fifths (60 percent) occurred during the neonatal period (the first 27 days of life). Of infant deaths that occurred during the neonatal period, 72 percent were for infants of low birthweight (Table 2.1).

By race, the number of white infant deaths declined from 482 in 1987 to 453 in 1988. The rate decreased from 7.7 to 7.3 per 1,000 live births. Among minority groups, the number of infant deaths increased, from 129 in 1987 to 145 in 1988, with the infant death rate moving from 16.1 to 17.1 per 1,000 live births. The 1988 infant death rate for minority groups represented a rate more than double that of white infants. The difference in infant mortality rates between the white and minority populations has changed little in recent years. The small change that occurred is in the direction of widening the difference (Table D).

Table D

Infant Deaths, White and Nonwhite
Wisconsin, 1984-1988

	Total		White		Nonwhite	
Year	Number	Rate	Number	Rate	Number	Rate
1984	723	9.9	598	9.0	125	18.8
1985	674	9.2	561	8.4	112	15.6
1986	668	9.2	531	8.2	135	17.6
1987	611	8.6	482	7.7	129	16.1
1988	598	8.9	453	7.3	145	17.1

Leading Causes of Death: Heart disease remained the leading reported cause of death in Wisconsin in 1988, accounting for 15,553 resident deaths. This total represented 36 percent of all resident deaths (Table 2.2). Malignant neoplasms (cancer) ranked second (9,796 deaths, or 23 percent of all deaths) and cerebrovascular disease (stroke) ranked third (3,383 deaths, or 8 percent). Combined, these three leading causes accounted for nearly 67 percent of total Wisconsin resident deaths in 1988. Other leading causes of death, in order of reported occurrence, included: pneumonia and influenza; accidents and adverse effects (unintentional fatal injuries); chronic obstructive pulmonary disease; diabetes mellitus; suicide; other arterial disease and atherosclerosis.

Heart disease also showed the highest cause-specific death rate, at 320.4 per 100,000 population. Malignant neoplasms were second with a death rate of 201, followed by cerebrovascular disease (69.7), pneumonia and influenza (37.0), accident fatalities (34.3) and chronic obstructive pulmonary disease (32.7).

Age- and Sex-Specific Death Rates: The top row of Table 2.5 depicts death rates per 100,000 population by age and sex. In every age group, the death rate for males consistently exceeded the death rate for females, often by wide margins. For example, among the groups comprising those aged 15 through 39, the male death rate for each group was more than twice the female rate for that group. The greatest percentage difference occurred among those aged 20 to 24, where the male death rate was triple the female rate. Among males aged 20 to 24, the death rate was 152.5 per 100,000 population compared to 45.0 for females.

Leading Causes of Death by Sex: Heart disease, malignant neoplasms and cerebrovascular disease represented the three leading causes of death for both males and females in Wisconsin. Death rates due to both heart disease and malignant neoplasms were somewhat higher for males than for females, while females had a higher death rate for cerebrovascular diseases.

Considerably greater sex-specific differences occurred among other leading causes of death. For example, the male death rate for accidents and adverse effects was over twice the female rate (48.1 and 21.1 per 100,000 population) (Table 2.8). Accidents and adverse effects accounted for 1,143 male deaths and 524 female deaths in 1988; more than twice as many males (572) as females (252) died as a result of motor vehicle accidents (Table 2.5).

The death rate for males due to reported suicide (21.3 per 100,000 population) exceeded the female suicide rate (5.9) by a ratio of nearly four to one. Male suicides in 1988 totaled 506, while female suicides totaled 146. The 652 total suicides reported in Wisconsin in 1988 represent a high level similar to 1987 when there were 680 suicides reported. The 1988 death rate due to reported suicides equaled 13.4 per 100,000 population, compared to 14.1 per 100,000 in 1987 and 12.4 in 1986. However, rates were higher in 1942, 1947 and throughout the 1920s and 1930s.

The male death rate due to chronic obstructive pulmonary disease, (40.3 per 100,000 population) was almost 59 percent higher than the female rate (25.4). Conditions in this cause-of-death category include bronchitis, emphysema, asthma and other chronic pulmonary conditions. This cause-of-death category is chiefly associated with smoking. Resident deaths coded to this category totaled 957 for males and 630 for females.

Leading Causes of Death by Age: Among infants aged less than one year, conditions of the perinatal period and congenital anomalies ranked as the leading causes of death. Among children aged 1 through 14, accidents and adverse effects caused almost half (44.3 percent) of all deaths, with male deaths exceeding female deaths by a margin of nearly two to one.

Motor vehicle fatalities accounted for over one-third of total deaths among persons aged 15 to 29 (37.8 percent of male deaths and 35.7 percent of female deaths). Suicide ranked as the second leading cause of death among both males and females in this age group, although male suicides outnumbered female suicides by over four to one (178 compared to 41, with rates of 30.0 and 7.0 per 100,000 population). Also, homicide ranked as the third leading cause of death for males aged 15 to 29, accounting for 6.1 percent of all male deaths in this age group. Male homicides totaled 47 compared to 18 female homicides, with rates of 7.9 and 3.1 per 100,000 population, respectively.

Among Wisconsin residents aged 35 to 39, heart disease was the second leading cause of death among males (accidents and adverse effects still ranked first) and malignant neoplasms was the leading cause of death among females (Table 2.5). Heart disease represented the leading cause of male deaths for subsequent age groups with the exception of males aged 55-59, for whom cancer was the leading cause. For the broad age range of 40 to 65, male deaths due to heart disease were three times those for females. Among females aged 35 to 74, cancer ranked as the leading cause of death; after age 74 cancer ranked second behind heart disease.

Among those aged 80 and older, heart disease, cancer and stroke ranked as the three leading causes of death, as they did for all age groups combined. Among females aged 90 and older, however, strokes accounted for more deaths than cancer. Also, a significant number of deaths among the elderly were reported to be from pneumonia and from accidents and adverse effects. Unlike the younger age groups, where motor vehicle injuries accounted for most accidental deaths, falls caused the majority of unintentional injury deaths among the elderly, particularly among women age 85 and above (Table 2.6).

Leading Causes of Death by Race: The leading cause of death in Wisconsin, heart disease, differed significantly in percentage of total deaths by race. Heart disease accounted for 36.6 percent of total deaths among whites compared to 26.2 percent among blacks, 27.3 percent among American Indians and 22.4 percent among those of other races (for a combined percentage among minority groups of 25.9 percent). Percentages of total white and minority group deaths due to malignant neoplasms were more consistent at 22.8 and 21.7 percent respectively (Table E and Table 2.3).

In contrast to heart disease, certain other causes of death resulted in higher percentages for minority groups than for the white population. These causes included conditions of the perinatal period, homicide, and accidents and adverse effects. For example, infant deaths due to conditions of the perinatal period resulted in 3.4 percent of total minority group deaths, compared to 0.4 percent of total white deaths.

Homicides accounted for 5.6 percent of total black deaths and 0.5 percent of American Indian deaths, compared to only 0.2 percent of total white deaths. Deaths among blacks coded as homicide represented over two-fifths of all homicides in Wisconsin in 1988 (70 of 167, or 41.9 percent), although blacks constituted only about 4 percent of the state's 1988 population.

Minority groups also showed somewhat higher percentages of total deaths reported as accidents and adverse effects (6.0 percent of total deaths among blacks, 11.2 percent among American Indians and 17.1 percent among those of other races, compared to 3.8 percent of total deaths among whites).

Table E

Percent Distribution of Leading Causes of Death by Race
Wisconsin, 1988

Cause of Death	Total Number	White Percent	Black Percent	Am.Ind. Percent	Other Percent
Heart Disease	15,553	36.6	26.2	27.3	22.4
Malignant Neoplasms	9,796	22.8	22.0	19.0	23.7
Cerebrovascular Disease	3,383	8.0	6.0	3.9	3.9
Pneumonia & Influenza	1,797	4.2	2.9	2.4	1.3
Accidents	1,667	3.8	6.0	11.2	17.1
Chronic Obstructive Pulmonary	1,587	3.8	2.1	2.0	1.3
Diabetes Mellitus	786	1.8	3.1	3.9	2.6
Suicide	652	1.5	1.5	3.4	1.3
Other Arterial Disease	536	1.3	.4	1.5	0
Atherosclerosis	423	1.0	.3	1.0	0
Nephritis & Nephrosis	420	1.0	.6	2.9	0
Chronic Liver Disease & Cirrhosis	394	.9	1.0	3.9	1.3
Septicemia	328	.8	.8	1.0	0
Congenital Anomalies	244	.5	1.3	.5	7.9
Perinatal	236	.4	3.7	1.5	2.6
Homicide	167	.2	5.6	.5	0
All Other	5,010	11.5	16.3	14.1	18.4
Total	42,979	100.0	100.0	100.0	100.0

Note: Percent distributions by race are affected by age distributions by race. No adjustments have been applied to these percentages.

TABLE 2.1

FETAL AND INFANT DEATHS BY BIRTHWEIGHT GROUP,
BY RACE AND AGE OF MOTHER
WISCONSIN, 1988

(RESIDENCE DATA)

AGE OF MOTHER	FETAL DEATHS					INFANT DEATHS									
						TOTAL				<28 DAYS		<7 DAYS		<1 DAY	
	TOTAL	999 GRAMS &LESS	1000-2499 GRAMS	2500+ GRAMS	WT. UNK	TOTAL	LBW**	NBW*	UNK	LBW*	NBW*	LBW*	NBW*	LBW*	NBW*
TOTAL	429	176	117	119	17	598	304	284	10	254	97	229	68	185	31
UNDER 15	4	3	1			1	1			1		1			
15	6	5	1			11	7	4		6	1	5	1	4	1
16	6	4	1		1	9	1	8		1	1	1		1	
17	17	7	5	4	1	21	11	10		11	2	9		9	
18	13	6	3	3	1	30	14	15	1	13	3	12	2	12	1
19	18	7	6	5		23	11	12		8	2	8	1	6	
20-24	104	42	27	31	4	170	75	95		62	28	53	23	39	9
25-29	120	46	34	32	8	183	96	85	2	73	34	67	21	57	10
30-34	99	38	26	33	2	115	66	48	1	61	24	57	18	46	9
35-39	30	14	7	9		24	17	7		15	2	14	2	9	1
40-44	9	3	4	2		4	4			3		2		2	
45+	2	1	1			1	1								
UNKNOWN	1		1			6			6						
RACE OF MOTHER - WHITE															
TOTAL	316	119	91	101	5	453	232	217	4	199	82	181	60	146	27
UNDER 15	2	1	1			1	1			1		1			
15	1	1				2	1	1		1					
16	1	1				3	1	2		1		1		1	
17	7	2	3	2		16	8	8		8	1	7		7	
18	9	5	2	2		17	7	9	1	7	2	7	1	7	1
19	14	6	4	4		18	8	10		6	2	6	1	4	
20-24	69	25	21	22	1	116	48	68		41	23	35	20	27	7
25-29	96	36	26	31	3	153	80	71	2	63	30	59	20	50	10
30-34	79	26	23	29	1	100	58	41	1	54	22	50	16	39	8
35-39	29	13	7	9		23	16	7		14	2	13	2	9	1
40-44	9	3	4	2		3	3			3		2		2	
45+						1	1								
RACE OF MOTHER - BLACK															
TOTAL	94	48	21	14	11	109	61	48		47	10	42	5	34	3
UNDER 15	1	1													
15	5	4	1			9	6	3		5	1	5	1	4	1
16	5	3	1		1	4		4							
17	9	5	1	2	1	4	2	2		2	1	2		2	
18	2	1			1	12	7	5		6	1	5	1	5	
19	4	1	2	1		3	1	2							
20-24	31	15	5	8	3	44	22	22		19	5	17	3	11	2
25-29	20	9	7		4	25	16	9		10	2	8		7	
30-34	16	9	3	3	1	7	6	1		5		5		5	
35-39															
40-44						1	1								
45+															
UNKNOWN	1		1												
RACE OF MOTHER - OTHER															
TOTAL	19	9	5	4	1	36	11	19	6	8	5	6	3	5	1
UNDER 15	1	1													
15						2		2			1				
16															
17	1		1			1	1			1					
18	2		1	1		1		1							
19						2	2			2		2		2	
20-24	4	2	1	1		10	5	5		2		1		1	
25-29	4	1	1	1	1	5		5			2		1		
30-34	4	3		1		8	2	6		2	2	2	2	2	1
35-39	1	1				1	1			1		1			
40-44															
45+	2	1	1												
UNKNOWN						6			6						

NOTE: LBW - LOW BIRTH WEIGHT (UNDER 2500 GRAMS)
NBW - NORMAL BIRTH WEIGHT (2500 GRAMS & UP)
UNK - UNKNOWN BIRTH WEIGHT

TABLE 2.2

DEATHS BY CAUSE GROUP AND BY SEX,
BY COUNTY
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH		TOTAL	ADAM	ASHL	BARR	BAYF	BROW	BUFF	BURN	CALU	CHIP	CLAR	COLU	CRAW
TOTAL		42979	172	216	441	152	1285	123	154	244	466	330	488	183
MALE		22161	103	104	236	84	679	76	84	139	242	183	272	93
FEMALE		20817	69	112	205	68	606	47	70	105	224	147	216	90
UNKNOWN SEX		1												
TUBERCULOSIS	010-018	17												
SEPTICEMIA	038	328	2	3	3	4	11		2	1	6	1	4	
HUMAN IMMUNODEFICIENCY VIRUS	042-044	58						1				1		
OTHER INFECTIONS AND PARASITIC	***	143		2	1		3	1		1	4		1	3
MALIGNANT NEOPLASMS	140-208	9796	50	58	87	32	277	23	48	67	106	69	107	42
LIP, ORAL CAVITY, PHARYNX	140-149	150		1	2		4						1	
DIGESTIVE ORG. AND PERITONEUM	150-159	2471	9	20	25	9	66	6	8	20	20	21	35	14
RESPIRATORY AND INTRATHORACIC	160-165	2375	13	12	16	6	75	2	13	10	34	19	22	12
BREAST	174-175	870	4	4	8	2	21	2	4	5	10	10	4	2
GENITAL ORGANS	179-187	1184	8	8	19	2	29	5	7	11	11	7	11	6
URINARY ORGANS	188-189	482	1	3	3	2	15	2	3	4	5	3	8	3
OTHER AND UNSPEC SITES 170-173,	190-199	1290	6	5	6	8	37	4	7	9	16	6	17	5
OTHER LYMPH. AND HEMATOP.	200-203	578	4	3	5	1	17	1	4	4	7		4	
LEUKEMIA	204-208	396	5	2	3	2	13	1	2	4	3	3	5	
BENIGN AND UNCERTAIN NEOPLASMS	210-239	112		1	1	1	6		1			3	1	
DIABETES MELLITUS	250	786	5	7	4	5	10		2	9	13	11	10	1
NUTRITIONAL DEFICIENCIES	260-269	78			3	1	1						2	
ANEMIAS	280-285	63			2		2				1		1	
MENINGITIS	320-322	18	1											
CIRCULATORY DISEASE	391-448	20058	72	99	226	84	632	60	61	98	216	154	239	93
HEART	391-398,402,404-429	15553	57	77	170	62	491	46	43	68	170	128	181	74
RHEUMATIC FEVER	391-398	117				1	2	1		3	1		2	
HYPERTENSIVE HEART DISEASE	402	269	1	1	1	1	6	2		1			2	2
HYP. HEART AND RENAL DISEASE	404	30							1		1			
ISCHEMIC HEART DISEASE	410-414	11493	46	46	111	41	372	26	34	45	133	93	119	49
ACUTE (INCL/MYO. INFARC)	410-411	5920	39	28	66	15	249	20	27	22	84	60	74	36
CHRONIC (INCL. OLD M.I.)	412-414	5573	7	18	45	26	123	6	7	23	49	33	45	13
OTHER ENDOCARDIAL DISEASES	424	290		1	8		8	1	1	2	4	3	2	2
OTHER HEART DISEASE	415-423,425-429	3354	10	29	50	19	103	16	7	17	31	32	56	21
HYPERTENSION W/ OR W/O RENAL	401,403	163		1	1		3		1		3	1	4	
CEREBROVASCULAR DISEASES	430-438	3383	8	17	34	15	108	9	11	21	34	19	47	14
INTRACRANIAL HEMORRHAGE	431,432	425		2	2	1	12	1		2	3	2	8	2
CEREBRAL OCCLUSION	434	404			1	1	24	1		4	7	2	5	1
OTHER CEREBROVASC.	430,433,435-438	2554	8	15	31	13	72	7	11	15	24	15	34	11
ATHEROSCLEROSIS	440	423	7	1	10	1	13	1	4	1	2		3	2
OTHER ARTERIAL DISEASE	441-448	536		3	11	6	17	4	2	8	7	6	4	3
ACUTE BRONCHITIS AND BRONCHIOLITIS	466	15					1							
PNEUMONIA AND INFLUENZA	480-487	1797	4	5	15	1	54	5	7	7	15	8	15	10
PNEUMONIA	480-486	1747	4	4	15	1	54	4	7	7	14	8	15	9
CHRONIC OBSTRUCTIVE PULMONARY	490-496	1587	4	6	18	5	44	4	2	9	23	11	17	7
CHRONIC & UNSPEC. BRONCHITIS	490-491	57			2		1				1		1	
EMPHYSEMA	492	293	2		1		17			5	4		3	3
ASTHMA	493	79		1			2							
OTHER CHRONIC PULMONARY	494-496	1158	2	5	15	5	24	4	2	4	18	11	13	4
ULCER OF STOMACH AND DUODENUM	531-533	134		1	1		4	1		1	1	1	5	1
APPENDICITIS	540-543	10												
ABD. HERNIA & INTEST. OBSTR.	550-553,560	129	1	1	1		1	1			2	1	3	
CHRONIC LIVER DIS. AND CIRRHOSIS	571	394	4	3			16		2	2	3	6	3	1
CHOLELITHIASIS AND GALLBLADDER	574-575	59			1		1					1		1
NEPHRITIS AND NEPHROSIS	580-589	420	5	5	6	2	16		3	3	5	2	1	1
INFECTIONS OF THE KIDNEY	590	33			1		1				1		1	
HYPERPLASIA OF THE PROSTATE	600	18	1	1										
COMPLICATIONS OF PREGNANCY	630-676	6					1					1		
OTHER COMPLICATIONS	640-676	6					1					1		
CONGENITAL ANOMALIES	740-759	245	2	1	3	1	5	1		4		2	1	
CONDITIONS OF PERINATAL PERIOD	760-779	236		1		1	8	2	1		2			1
BIRTH TRAUMA	767-769	53					2							
OTHER PERINATAL CONDS.	760-766,770-779	183		1		1	6	2	1		2			1
ILL DEFINED CONDITIONS	780-799	236			2	2	3	1	1	1			4	1
ALL OTHER DISEASES		3670	10	15	46	10	96	13	20	22	33	35	41	13
ACCIDENTS AND ADVERSE EFFECTS	800-949	1667	9	6	18	3	56	9	4	16	20	16	20	6
MOTOR VEHICLE ACCIDENTS	810-825	824	6	3	8	3	35	5	3	4	10	7	12	2
OTHER	800-807,826-949	843	3	3	10		21	4	1	12	10	9	8	4
SUICIDE	950-959	652	1		2		26	1		1	12	7	8	2
HOMICIDE AND LEGAL INTERVENT.	960-978	167	1				6			1	2		4	
ALL OTHER EXTERNAL CAUSES	980-999	47		1			4			1	1			

*** INCLUDES ICD-9 CODES 001-009,020-037,039-041,045-139

TABLE 2.2

DEATHS BY CAUSE GROUP AND BY SEX,
BY COUNTY
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH		DANE	DODG	DOOR	DOUG	DUNN	EAUCL	FLOR	FOND	FORE	GRAN	GREE	GRLA	IOWA
TOTAL		2176	732	248	478	281	723	45	857	111	467	316	256	184
MALE		1033	361	132	235	160	362	23	416	50	232	164	139	105
FEMALE		1143	371	116	243	121	361	22	441	61	235	152	117	79
UNKNOWN SEX														
TUBERCULOSIS	010-018	1								1				
SEPTICEMIA	038	10	4	1	4		5		3		2		2	
HUMAN IMMUNODEFICIENCY VIRUS	042-044	7	2		1		1							1
OTHER INFECTIONS AND PARASITIC	***	12				1	4		2		1			
MALIGNANT NEOPLASMS	140-208	521	173	69	122	65	167	10	177	20	94	58	66	31
LIP, ORAL CAVITY, PHARYNX	140-149	14	1	2	1	2	1		2			1		
DIGESTIVE ORG. AND PERITONEUM	150-159	119	55	29	33	11	53	1	48	3	28	15	13	6
RESPIRATORY AND INTRATHORACIC	160-165	124	33	8	27	12	27	4	44	8	21	13	20	9
BREAST	174-175	56	18	1	10	6	19		19	2	9	3	9	2
GENITAL ORGANS	179-187	62	23	14	13	13	20	2	24	2	9	9	7	4
URINARY ORGANS	188-189	25	13	2	3	2	8	1	5	3	4	4	3	
OTHER AND UNSPEC SITES	170-173,190-199	63	16	5	24	10	25	1	19	2	15	5	8	4
OTHER LYMPH. AND HEMATOP.	200-203	30	10	3	9	6	7		8		5	4	4	4
LEUKEMIA	204-208	28	4	5	2	3	7	1	8		3	4	2	2
BENIGN AND UNCERTAIN NEOPLASMS	210-239	4		1			3			1		1		
DIABETES MELLITUS	250	38	12	4	4	3	8		13		13	11	7	3
NUTRITIONAL DEFICIENCIES	260-269	1	5		1	1	2		3	3		1		
ANEMIAS	280-285	2					2	1	2					
MENINGITIS	320-322	2												
CIRCULATORY DISEASE	391-448	950	367	108	216	133	319	23	432	51	240	150	110	108
HEART	391-398,402,404-429	706	273	83	178	96	245	16	345	44	170	113	89	72
RHEUMATIC FEVER	391-398	10	1	1	1	2	3		3				1	1
HYPERTENSIVE HEART DISEASE	402	7	6		3				12		3	2	1	
HYP. HEART AND RENAL DISEASE	404	1	1								1			
ISCHEMIC HEART DISEASE	410-414	526	214	53	118	74	167	12	261	30	124	73	66	60
ACUTE (INCL/MYO. INFARC)	410-411	239	120	31	40	38	77	6	119	19	80	42	57	26
CHRONIC (INCL. OLD M.I.)	412-414	287	94	22	78	36	90	6	142	11	44	31	9	34
OTHER ENDOCARDIAL DISEASES	424	15	4	2	1	2	2		3	1	2	3	3	
OTHER HEART DISEASE	415-423,425-429	147	47	27	55	18	73	4	66	13	40	35	18	11
HYPERTENSION W/ OR W/O RENAL	401,403	10	4						5		3		2	
CEREBROVASCULAR DISEASES	430-438	190	74	19	25	32	61	2	55	4	56	30	13	27
INTRACRANIAL HEMORRHAGE	431,432	24	6		3	4	11		9	1	3	3	2	1
CEREBRAL OCCLUSION	434	27	12	1	2	1	3		5		6		1	2
OTHER CEREBROVASC.	430,433,435-438	139	56	18	20	27	47	2	41	3	47	27	10	24
ATHEROSCLEROSIS	440	16	7	4	10		4	4	9		7	5	3	5
OTHER ARTERIAL DISEASE	441-448	28	9	2	3	5	9	1	18	3	4	2	3	4
ACUTE BRONCHITIS AND BRONCHIOLITIS	466	1												
PNEUMONIA AND INFLUENZA	480-487	89	33	7	14	17	29	1	48	5	25	20	17	9
PNEUMONIA	480-486	88	31	7	14	17	29	1	47	5	21	19	17	8
CHRONIC OBSTRUCTIVE PULMONARY	490-496	91	15	10	16	10	42	2	30	4	14	11	12	8
CHRONIC & UNSPEC. BRONCHITIS	490-491	3	1	1		1	2				1		3	
EMPHYSEMA	492	11			2	2	13		4	3	3	4	2	3
ASTHMA	493	8	1			2	2		2	1		1		
OTHER CHRONIC PULMONARY	494-496	69	13	9	14	5	25	2	24		10	6	7	5
ULCER OF STOMACH AND DUODENUM	531-533	5	4		1		1		2			2	1	
APPENDICITIS	540-543						1				1			
ABD. HERNIA & INTEST. OBSTR.	550-553,560	3	2	5		3	5	1	1		3	1		
CHRONIC LIVER DIS. AND CIRRHOSIS	571	23	2	1	6		10	1	2	2	5	4		
CHOLELITHIASIS AND GALLBLADDER	574-575	5	2				1					1		
NEPHRITIS AND NEPHROSIS	580-589	17	8	4	5		7		10	2	3	1	9	
INFECTIONS OF THE KIDNEY	590	1	1				1		2					
HYPERPLASIA OF THE PROSTATE	600	1				1			1			2		
COMPLICATIONS OF PREGNANCY	630-676		1											
OTHER COMPLICATIONS	640-676		1											
CONGENITAL ANOMALIES	740-759	10	1		3	2	4	1	5		1	4		2
CONDITIONS OF PERINATAL PERIOD	760-779	15	3			1	6		4		1		2	
BIRTH TRAUMA	767-769	2	1				1						2	
OTHER PERINATAL CONDS.	760-766,770-779	13	2			1	5		4		1			
ILL DEFINED CONDITIONS	780-799	10	2		7	1	4		2	3		1	1	2
ALL OTHER DISEASES		186	66	30	54	25	59	3	83	15	42	31	13	10
ACCIDENTS AND ADVERSE EFFECTS	800-949	99	25	5	16	13	29	1	24	4	18	12	15	9
MOTOR VEHICLE ACCIDENTS	810-825	52	14	2	7	4	19	1	13	4	9	7	8	5
OTHER	800-807,826-949	47	11	3	9	9	10		11		9	5	7	4
SUICIDE	950-959	56	4	3	8	5	12	1	10		3	5	1	1
HOMICIDE AND LEGAL INTERVENT.	960-978	9					1		1		1			
ALL OTHER EXTERNAL CAUSES	980-999	7												

*** INCLUDES ICD-9 CODES 001-009,020-037,039-041,045-139

TABLE 2.2

DEATHS BY CAUSE GROUP AND BY SEX,
BY COUNTY
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH		IRON	JACK	JEFF	JUNE	KENO	KEWA	LACR	LAFA	LANG	LINC	MANI	MARA	MARI
TOTAL		84	185	537	253	1146	161	828	160	226	280	745	879	503
MALE		41	98	307	135	616	73	413	94	125	141	385	443	271
FEMALE		43	87	230	118	530	88	415	66	101	139	360	436	232
UNKNOWN SEX														
TUBERCULOSIS	010-018					1							1	
SEPTICEMIA	038	2	2	4	5	13	1	8	3		5	6	7	2
HUMAN IMMUNODEFICIENCY VIRUS	042-044			1				1					2	1
OTHER INFECTIONS AND PARASITIC	***		1	2		1		4		2	1	2	3	1
MALIGNANT NEOPLASMS	140-208	20	47	134	52	276	36	170	24	57	50	163	204	123
LIP, ORAL CAVITY, PHARYNX	140-149		1	2	1	8		2			2	2	3	1
DIGESTIVE ORG. AND PERITONEUM	150-159	5	12	38	16	65	11	38	8	8	16	54	55	26
RESPIRATORY AND INTRATHORACIC	160-165	7	12	26	9	83	5	46	6	17	10	29	45	22
BREAST	174-175	2	1	15	5	22	7	17	3	5	2	18	19	17
GENITAL ORGANS	179-187	3	9	12	3	21	3	19	3	11	4	20	27	11
URINARY ORGANS	188-189		1	12	1	11	2	7	1	3	5	7	9	8
OTHER AND UNSPEC SITES 170-173,	190-199	1	6	16	8	41	7	27	3	6	6	17	22	20
OTHER LYMPH. AND HEMATOP.	200-203		2	7	4	15	1	7		4	3	10	16	12
LEUKEMIA	204-208	2	3	6	5	10		7		3	2	6	8	6
BENIGN AND UNCERTAIN NEOPLASMS	210-239	1		2	3	4		3	1		2	2	2	1
DIABETES MELLITUS	250	1	3	3	3	20	15	13	2	3	7	14	28	14
NUTRITIONAL DEFICIENCIES	260-269	1		1	2	1		3		1		4		2
ANEMIAS	280-285			2	1	3		2				1	3	
MENINGITIS	320-322			1						1			1	
CIRCULATORY DISEASE	391-448	45	85	246	117	542	66	364	89	104	138	334	382	225
HEART	391-398,402,404-429	32	71	199	94	434	51	283	67	90	115	262	272	166
RHEUMATIC FEVER	391-398					1	1	5				3	3	
HYPERTENSIVE HEART DISEASE	402			3	2	4	3	2	1		1	1	12	1
HYP. HEART AND RENAL DISEASE	404			1			1							
ISCHEMIC HEART DISEASE	410-414	23	53	150	68	322	31	225	47	76	97	195	198	132
ACUTE (INCL/MYO. INFARC)	410-411	13	33	81	34	109	21	86	37	48	53	139	111	69
CHRONIC (INCL. OLD M.I.)	412-414	10	20	69	34	213	10	139	10	28	39	56	87	63
OTHER ENDOCARDIAL DISEASES	424	2		2	1	8	1	5	2	1	1	9	10	2
OTHER HEART DISEASE	415-423,425-429	7	18	43	23	99	14	46	17	13	26	54	49	31
HYPERTENSION W/ OR W/O RENAL	401,403			1	3	7	1	3			2	1	9	2
CEREBROVASCULAR DISEASES	430-438	12	14	36	19	79	11	59	14	11	12	56	79	51
INTRACRANIAL HEMORRHAGE	431,432	1	2	3	2	17		8				4	18	5
CEREBRAL OCCLUSION	434	3		2		18	1	9	2	4		1	8	6
OTHER CEREBROVASC.	430,433,435-438	8	12	31	17	44	10	42	12	7	12	51	53	40
ATHEROSCLEROSIS	440			4		9	2	9	5	1	7	10	7	4
OTHER ARTERIAL DISEASE	441-448	1		6	1	13	1	10	3	2	2	5	15	2
ACUTE BRONCHITIS AND BRONCHIOLITIS	466			1										1
PNEUMONIA AND INFLUENZA	480-487	2	8	35	8	33	11	30	5	7	15	35	19	23
PNEUMONIA	480-486	2	7	34	8	33	11	30	4	4	15	32	18	22
CHRONIC OBSTRUCTIVE PULMONARY	490-496	1	9	17	12	53	4	34	6	6	5	32	41	25
CHRONIC & UNSPEC. BRONCHITIS	490-491			1	1	4		1		1		1	1	
EMPHYSEMA	492			2	3	7		3		2		6	9	6
ASTHMA	493	1		2	3		2	1	1			3		2
OTHER CHRONIC PULMONARY	494-496		9	12	5	42	2	29	5	3	5	22	31	17
ULCER OF STOMACH AND DUODENUM	531-533					1		4		1	3	5	5	3
APPENDICITIS	540-543					1								
ABD. HERNIA & INTEST. OBSTR.	550-553,560			1	1	1		4				3	2	1
CHRONIC LIVER DIS. AND CIRRHOSIS	571	1		5	4	9	2	4		4	4	8	9	1
CHOLELITHIASIS AND GALLBLADDER	574-575		1	1	3	2		1		1		1	1	
NEPHRITIS AND NEPHROSIS	580-589		1	6	4	12	2	12	1		4	6	12	6
INFECTIONS OF THE KIDNEY	590				1							1		
HYPERPLASIA OF THE PROSTATE	600		1			1								
COMPLICATIONS OF PREGNANCY	630-676													
OTHER COMPLICATIONS	640-676													
CONGENITAL ANOMALIES	740-759	1	1	5		6	1	5		1	2	5	14	4
CONDITIONS OF PERINATAL PERIOD	760-779		2	3		5	2	7	1	1	1	5	2	3
BIRTH TRAUMA	767-769		2	1		1		2	1		1	1		
OTHER PERINATAL CONDS.	760-766,770-779			2		4	2	5		1		4	2	3
ILL DEFINED CONDITIONS	780-799		1	4	1	11	1	4		2			4	1
ALL OTHER DISEASES		6	9	32	20	89	10	106	18	18	21	74	97	37
ACCIDENTS AND ADVERSE EFFECTS	800-949	2	10	23	13	36	8	31	8	12	14	29	26	24
MOTOR VEHICLE ACCIDENTS	810-825		6	9	4	20	6	15	3	7	11	16	12	13
OTHER	800-807,826-949	2	4	14	9	16	2	16	5	5	3	13	14	11
SUICIDE	950-959	1	3	8	2	20	2	17	1	4	7	14	12	5
HOMICIDE AND LEGAL INTERVENT.	960-978		1			3		1		1	1	1	2	
ALL OTHER EXTERNAL CAUSES	980-999				1	2			1					

*** INCLUDES ICD-9 CODES 001-009,020-037,039-041,045-139

TABLE 2.2

DEATHS BY CAUSE GROUP AND BY SEX,
BY COUNTY
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH		MARQ	MENO	MILW	MONR	OCON	ONEI	OUTA	OZAU	PEPI	PIER	POLK	PORT	PRIC
TOTAL		148	35	9449	354	314	350	981	449	89	238	356	421	190
MALE		80	24	4783	198	179	176	494	222	44	131	192	240	96
FEMALE		68	11	4665	156	135	174	487	227	45	107	164	181	94
UNKNOWN SEX				1										
TUBERCULOSIS	010-018			5				1						1
SEPTICEMIA	038	2		91	1		3	8	3		2	2	3	2
HUMAN IMMUNODEFICIENCY VIRUS	042-044			23									1	
OTHER INFECTIONS AND PARASITIC	***			38	1	1	2	3	2		2	2	1	2
MALIGNANT NEOPLASMS	140-208	40	6	2131	77	57	90	236	119	13	44	75	98	36
LIP, ORAL CAVITY, PHARYNX	140-149	1	1	40	1		1	6	2		1		1	1
DIGESTIVE ORG. AND PERITONEUM	150-159	13		565	19	12	21	55	36	5	10	21	30	5
RESPIRATORY AND INTRATHORACIC	160-165	9	3	520	25	13	24	53	24	1	7	13	25	10
BREAST	174-175	4		185	3	2	9	21	17		6	11	2	2
GENITAL ORGANS	179-187	4		268	5	12	10	19	13	1	5	11	15	2
URINARY ORGANS	188-189	1		76	8	1	3	18	7	2	3	5	4	3
OTHER AND UNSPEC SITES	170-173,190-199	5	2	274	12	9	14	33	13	2	9	7	7	10
OTHER LYMPH. AND HEMATOP.	200-203	1		124	2	5	4	19	6		2	5	6	1
LEUKEMIA	204-208	2		79	2	3	4	12	1	2	1	2	8	2
BENIGN AND UNCERTAIN NEOPLASMS	210-239			24		1	1	3				1	3	
DIABETES MELLITUS	250	4		205	7	9	1	16	9	3	2	5	2	2
NUTRITIONAL DEFICIENCIES	260-269			14	1			5	1		1		1	
ANEMIAS	280-285	2		15		1	1	1	1					
MENINGITIS	320-322			6			1	1	1					
CIRCULATORY DISEASE	391-448	61	12	4319	167	162	155	417	220	48	119	177	202	98
HEART	391-398,402,404-429	45	10	3435	125	121	123	322	149	31	85	134	155	67
RHEUMATIC FEVER	391-398			26	2		1	2		1				
HYPERTENSIVE HEART DISEASE	402			100			2	3			5	1	2	1
HYP. HEART AND RENAL DISEASE	404			10					1				1	
ISCHEMIC HEART DISEASE	410-414	33	6	2547	97	95	89	221	99	21	55	87	95	48
ACUTE (INCL/MYO. INFARC)	410-411	23	4	1057	55	71	56	161	49	12	24	47	57	35
CHRONIC (INCL. OLD M.I.)	412-414	10	2	1490	42	24	33	60	50	9	31	40	38	13
OTHER ENDOCARDIAL DISEASES	424			57	5	1	3	4	5	2	1	1	2	2
OTHER HEART DISEASE	415-423,425-429	12	4	695	21	25	28	92	44	7	24	45	55	16
HYPERTENSION W/ OR W/O RENAL	401,403	2		32		2		1	3	2	1		2	
CEREBROVASCULAR DISEASES	430-438	12	1	690	29	28	27	76	45	13	30	31	38	17
INTRACRANIAL HEMORRHAGE	431,432	1		90	2	3	4	11	6	1	6	3	3	1
CEREBRAL OCCLUSION	434	3		89		3		13	6	1	3	2		
OTHER CEREBROVASC.	430,433,435-438	8	1	511	27	22	23	52	33	11	21	26	35	16
ATHEROSCLEROSIS	440	1		57	3	3		5	14		1	11	4	9
OTHER ARTERIAL DISEASE	441-448	1	1	105	10	8	5	13	9	2	2	1	3	5
ACUTE BRONCHITIS AND BRONCHIOLITIS	466	1		2		1			1					
PNEUMONIA AND INFLUENZA	480-487	8	1	409	23	19	16	42	16	5	10	11	10	8
PNEUMONIA	480-486	7	1	406	23	18	16	41	16	5	9	11	9	8
CHRONIC OBSTRUCTIVE PULMONARY	490-496	6	1	324	19	8	16	45	13	3	8	13	12	3
CHRONIC & UNSPEC. BRONCHITIS	490-491			11		1	1	1			1			
EMPHYSEMA	492	2		50	1	1	2	5	2			2	2	
ASTHMA	493			15	2					1	1		1	1
OTHER CHRONIC PULMONARY	494-496	4	1	248	16	6	13	39	11	2	6	11	9	2
ULCER OF STOMACH AND DUODENUM	531-533	1		36		2		3	2	1	1	1	3	
APPENDICITIS	540-543	1		3										
ABD. HERNIA & INTEST. OBSTR.	550-553,560			26	2	2		7	2	1	1	1	2	1
CHRONIC LIVER DIS. AND CIRRHOSIS	571	4	2	105	3	2	5	10	5				3	2
CHOLELITHIASIS AND GALLBLADDER	574-575			10	2		1	4		1		1		
NEPHRITIS AND NEPHROSIS	580-589	3	2	76	2		1	7	2	3	2	4	4	2
INFECTIONS OF THE KIDNEY	590			4	1	2	2	1			1			
HYPERPLASIA OF THE PROSTATE	600			3		1					1			
COMPLICATIONS OF PREGNANCY	630-676			3										
OTHER COMPLICATIONS	640-676			3										
CONGENITAL ANOMALIES	740-759			46		1	2	4	4		2	1	3	
CONDITIONS OF PERINATAL PERIOD	760-779			73	2		1	11	4	1	2	1	1	1
BIRTH TRAUMA	767-769			15	1			2	2	1	1			
OTHER PERINATAL CONDS.	760-766,770-779			58	1		1	9	2		1	1	1	1
ILL DEFINED CONDITIONS	780-799	2	2	71	2	1	2	4				3		1
ALL OTHER DISEASES		3	2	822	27	25	35	82	29	5	24	30	34	14
ACCIDENTS AND ADVERSE EFFECTS	800-949	8	5	305	15	15	10	46	8	5	13	25	26	12
MOTOR VEHICLE ACCIDENTS	810-825	5	3	94	9	8	5	28	6	4	8	18	13	6
OTHER	800-807,826-949	3	2	211	6	7	5	18	2	1	5	7	13	6
SUICIDE	950-959	2	2	157	2	1	5	21	5		3	2	8	4
HOMICIDE AND LEGAL INTERVENT.	960-978			91		3		3	2				3	1
ALL OTHER EXTERNAL CAUSES	980-999			12								1	1	

*** INCLUDES ICD-9 CODES 001-009,020-037,039-041,045-139

TABLE 2.2

DEATHS BY CAUSE GROUP AND BY SEX,
BY COUNTY
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH		RACI	RICH	ROCK	RUSK	STCR	SAUK	SAWY	SHAW	SHEB	TAYL	TREM	VERN	VILA
TOTAL		1328	187	1319	161	367	470	173	426	939	183	273	301	224
MALE		678	114	674	74	181	236	88	243	468	108	149	170	115
FEMALE		650	73	645	87	186	234	85	183	471	75	124	131	109
UNKNOWN SEX														
TUBERCULOSIS	010-018			2						1				
SEPTICEMIA	038	9	1	5	2	1	8	1	3	4	2			2
HUMAN IMMUNODEFICIENCY VIRUS	042-044	2		1				1		1				
OTHER INFECTIONS AND PARASITIC	***	7	1	1		2		1		2		1	2	
MALIGNANT NEOPLASMS	140-208	277	30	323	36	79	99	54	68	226	48	46	55	63
LIP, ORAL CAVITY, PHARYNX	140-149	4	1	7	1		3		2	4	1			
DIGESTIVE ORG. AND PERITONEUM	150-159	68	6	74	6	20	22	8	14	58	12	8	9	20
RESPIRATORY AND INTRATHORACIC	160-165	82	11	95	13	11	22	16	15	46	7	12	17	16
BREAST	174-175	25	5	15	2	8	10	6	7	22	3	3	6	7
GENITAL ORGANS	179-187	25	1	36	3	10	13	11	6	28	10	8	6	5
URINARY ORGANS	188-189	14		15	2	7	8	2	7	15	2		4	4
OTHER AND UNSPEC SITES 170-173,	190-199	37	3	48	4	11	11	7	13	24	8	8	6	7
OTHER LYMPH. AND HEMATOP.	200-203	16	3	26	3	7	6	4	2	21	5	3	5	2
LEUKEMIA	204-208	6		7	2	5	4		2	8		4	2	2
BENIGN AND UNCERTAIN NEOPLASMS	210-239	1		6	1	1	2			1	1	1		
DIABETES MELLITUS	250	18	4	22		9	3	3	9	9	6	4	2	1
NUTRITIONAL DEFICIENCIES	260-269	5	1	1					1					
ANEMIAS	280-285	3		1		1			3	1				
MENINGITIS	320-322						1						1	
CIRCULATORY DISEASE	391-448	613	97	605	86	153	221	71	246	452	74	153	164	107
HEART	391-398,402,404-429	492	66	472	70	110	175	53	194	340	54	126	128	82
RHEUMATIC FEVER	391-398	1		6	1		2	1		2	1	2		1
HYPERTENSIVE HEART DISEASE	402	7		6					4	11			2	2
HYP. HEART AND RENAL DISEASE	404	1							1	2		1		
ISCHEMIC HEART DISEASE	410-414	372	50	372	61	76	126	32	145	226	45	79	103	64
ACUTE (INCL/MYO. INFARC)	410-411	160	37	214	53	39	90	18	96	115	23	49	57	40
CHRONIC (INCL. OLD M.I.)	412-414	212	13	158	8	37	36	14	49	111	22	30	46	24
OTHER ENDOCARDIAL DISEASES	424	13	1	7		2	2		3	6	1	6	2	2
OTHER HEART DISEASE	415-423,425-429	98	15	81	8	32	45	20	41	93	7	38	21	13
HYPERTENSION W/ OR W/O RENAL	401,403	8		5		2			2	1	2	1	1	
CEREBROVASCULAR DISEASES	430-438	82	28	79	14	33	39	12	38	85	11	23	27	20
INTRACRANIAL HEMORRHAGE	431,432	17	1	15		3	4	3	7	7	3	4	8	2
CEREBRAL OCCLUSION	434	8		16	1	4	6	2	6	9			4	4
OTHER CEREBROVASC.	430,433,435-438	57	27	48	13	26	29	7	25	69	9	19	21	14
ATHEROSCLEROSIS	440	17	1	41		2	3	3	7	18	1	1	3	
OTHER ARTERIAL DISEASE	441-448	14	2	8	2	6	4	3	5	8	6	2	5	5
ACUTE BRONCHITIS AND BRONCHIOLITIS	466	4												
PNEUMONIA AND INFLUENZA	480-487	47	10	59	8	20	31	11	15	50	3	8	17	5
PNEUMONIA	480-486	47	10	57	8	19	29	11	15	43	3	8	17	5
CHRONIC OBSTRUCTIVE PULMONARY	490-496	67	8	55	4	16	22	5	17	28	6	11	8	5
CHRONIC & UNSPEC. BRONCHITIS	490-491	1		1					1	3		1	2	
EMPHYSEMA	492	29	2	13	1	4	6	1	1	3		2		
ASTHMA	493	5		1			3			4	1		1	
OTHER CHRONIC PULMONARY	494-496	32	6	40	3	12	13	4	15	18	5	8	5	5
ULCER OF STOMACH AND DUODENUM	531-533	6	1	2		1		2			1	1	1	2
APPENDICITIS	540-543													
ABD. HERNIA & INTEST. OBSTR.	550-553,560	5		3		2	3		1	3			1	1
CHRONIC LIVER DIS. AND CIRRHOSIS	571	14	1	13	4		1	3	3	7		3		3
CHOLELITHIASIS AND GALLBLADDER	574-575	2	1					1		1				2
NEPHRITIS AND NEPHROSIS	580-589	16		10	3	7	4	1	6	7	3	1	6	
INFECTIONS OF THE KIDNEY	590	1		1		1								
HYPERPLASIA OF THE PROSTATE	600													
COMPLICATIONS OF PREGNANCY	630-676													
OTHER COMPLICATIONS	640-676													
CONGENITAL ANOMALIES	740-759	15	3	5		7	4	1	2	8	3	1	1	
CONDITIONS OF PERINATAL PERIOD	760-779	8		7		2		1	4	5		1		1
BIRTH TRAUMA	767-769	2								1				1
OTHER PERINATAL CONDS.	760-766,770-779	6		7		2		1	4	4		1		
ILL DEFINED CONDITIONS	780-799	16		10	1		3	3	3	3		1	2	2
ALL OTHER DISEASES		105	18	108	7	45	43	8	24	78	22	21	20	15
ACCIDENTS AND ADVERSE EFFECTS	800-949	49	8	56	9	14	21	5	18	39	12	17	18	13
MOTOR VEHICLE ACCIDENTS	810-825	23	3	28	1	7	11	4	13	24	6	7	8	6
OTHER	800-807,826-949	26	5	28	8	7	10	1	5	15	6	10	10	7
SUICIDE	950-959	24	3	18		5	4	1	3	11	2	3	3	2
HOMICIDE AND LEGAL INTERVENT.	960-978	10		4						2				
ALL OTHER EXTERNAL CAUSES	980-999	4		1		1								

*** INCLUDES ICD-9 CODES 001-009,020-037,039-041,045-139

TABLE 2.2

DEATHS BY CAUSE GROUP AND BY SEX,
BY COUNTY
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH		WALW	WASB	WASH	WAUK	WAUP	WAUS	WINN	WOOD
TOTAL		690	167	664	1945	614	214	1218	627
MALE		346	104	356	965	340	116	608	320
FEMALE		344	63	308	980	274	98	610	307
UNKNOWN SEX									
TUBERCULOSIS	010-018				1			1	1
SEPTICEMIA	038	15		5	12	3	2	7	3
HUMAN IMMUNODEFICIENCY VIRUS	042-044	1		2	4	1		2	
OTHER INFECTIONS AND PARASITIC	***	6	1	2	4	1		4	1
MALIGNANT NEOPLASMS	140-208	140	40	157	538	138	54	277	131
LIP, ORAL CAVITY, PHARYNX	140-149	2		3	3	5		4	1
DIGESTIVE ORG. AND PERITONEUM	150-159	38	4	37	111	33	15	63	34
RESPIRATORY AND INTRATHORACIC	160-165	41	12	33	145	38	10	74	31
BREAST	174-175	11	4	14	50	13	6	20	8
GENITAL ORGANS	179-187	18	4	24	59	17	5	35	23
URINARY ORGANS	188-189	9	3	10	37	3	4	13	
OTHER AND UNSPEC SITES 170-173,	190-199	13	6	19	81	18	7	38	21
OTHER LYMPH. AND HEMATOP.	200-203	4	4	11	30	7	2	15	6
LEUKEMIA	204-208	4	3	6	22	4	5	15	7
BENIGN AND UNCERTAIN NEOPLASMS	210-239	2		1	7	1	1	4	4
DIABETES MELLITUS	250	17	2	18	30	11	5	23	6
NUTRITIONAL DEFICIENCIES	260-269	2		1		2		2	1
ANEMIAS	280-285	2		1	2	1		2	
MENINGITIS	320-322				1				
CIRCULATORY DISEASE	391-448	338	82	311	853	305	109	571	310
HEART 391-398,402,	404-429	286	53	230	682	244	91	436	234
RHEUMATIC FEVER	391-398	1		3	11	3		3	1
HYPERTENSIVE HEART DISEASE	402	5		8	16	5	2	6	
HYP. HEART AND RENAL DISEASE	404				3	1	1		1
ISCHEMIC HEART DISEASE	410-414	212	49	184	510	206	74	323	191
ACUTE (INCL/MYO. INFARC)	410-411	121	33	89	225	111	49	129	98
CHRONIC (INCL. OLD M.I.)	412-414	91	16	95	285	95	25	194	93
OTHER ENDOCARDIAL DISEASES	424	5	1	6	14	1	4	9	8
OTHER HEART DISEASE 415-423,	425-429	63	3	29	128	28	10	95	33
HYPERTENSION W/ OR W/O RENAL	401,403	4	1	5	5	2		9	3
CEREBROVASCULAR DISEASES	430-438	37	19	61	132	43	16	100	69
INTRACRANIAL HEMORRHAGE	431,432	8	3	8	19		6	16	5
CEREBRAL OCCLUSION	434	4	2	9	25	3	2	5	14
OTHER CEREBROVASC. 430,433,	435-438	25	14	44	88	40	8	79	50
ATHEROSCLEROSIS	440	3	7	8	11	2	1	9	
OTHER ARTERIAL DISEASE	441-448	8	2	7	23	14	1	19	4
ACUTE BRONCHITIS AND BRONCHIOLITIS	466				1	1			
PNEUMONIA AND INFLUENZA	480-487	24	10	16	76	34	3	47	34
PNEUMONIA	480-486	24	10	16	74	33	3	45	34
CHRONIC OBSTRUCTIVE PULMONARY	490-496	23	6	13	75	24	6	40	17
CHRONIC & UNSPEC. BRONCHITIS	490-491	1			2	3			
EMPHYSEMA	492	6	1	3	17	4		13	
ASTHMA	493	1			2			3	2
OTHER CHRONIC PULMONARY	494-496	15	5	10	54	17	6	24	15
ULCER OF STOMACH AND DUODENUM	531-533	1		5	3	2	1	1	
APPENDICITIS	540-543			1				2	
ABD. HERNIA & INTEST. OBSTR.	550-553,560	4		2	4			4	3
CHRONIC LIVER DIS. AND CIRRHOSIS	571	6	1	5	13	2	1	16	10
CHOLELITHIASIS AND GALLBLADDER	574-575			2	2			4	1
NEPHRITIS AND NEPHROSIS	580-589	7	1	6	16	10	1	17	9
INFECTIONS OF THE KIDNEY	590	1		2	1	2		1	1
HYPERPLASIA OF THE PROSTATE	600				2	2			
COMPLICATIONS OF PREGNANCY	630-676								
OTHER COMPLICATIONS	640-676								
CONGENITAL ANOMALIES	740-759	2	1	5	14	2		5	5
CONDITIONS OF PERINATAL PERIOD	760-779	1		2	13	3	1	10	
BIRTH TRAUMA	767-769			1	2	1		6	
OTHER PERINATAL CONDS. 760-766,	770-779	1		1	11	2	1	4	
ILL DEFINED CONDITIONS	780-799	5	1	5	5	1	1	6	3
ALL OTHER DISEASES		63	11	63	150	39	18	116	56
ACCIDENTS AND ADVERSE EFFECTS	800-949	25	6	27	70	21	8	28	21
MOTOR VEHICLE ACCIDENTS	810-825	13	2	17	40	11	3	16	9
OTHER 800-807,	826-949	12	4	10	30	10	5	12	12
SUICIDE	950-959	5	3	8	38	6	3	23	10
HOMICIDE AND LEGAL INTERVENT.	960-978		2	1	4	2		3	
ALL OTHER EXTERNAL CAUSES	980-999			3	6				

*** INCLUDES ICD-9 CODES 001-009,020-037,039-041,045-139

TABLE 2.3
DEATHS BY CAUSE GROUP,
BY SEX AND RACE
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH	ICD-9	TOTAL MALE	TOTAL FEMALE	WHITE MALE	WHITE FEMALE	BLACK MALE	BLACK FEMALE	AMER-INDIAN MALE	AMER-INDIAN FEMALE	OTHER MALE	OTHER FEMALE
TOTAL		22161	20817	21279	20175	716	523	120	85	44	32
TUBERCULOSIS	010-018	9	8	8	7			1			1
SEPTICEMIA	038	155	173	153	163	2	8		2		
HUMAN IMMUNODEFICIENCY VIRUS	042-044	55	3	44	3	11					
OTHER INFECTIONS AND PARASITIC	***	71	72	60	64	7	4	1	2	3	2
MALIGNANT NEOPLASMS	140-208	5238	4558	5041	4424	164	109	24	15	9	9
LIP, ORAL CAVITY, PHARYNX	140-149	99	51	90	49	8	1	1	1		
DIGESTIVE ORG. AND PERITONEUM	150-159	1335	1136	1289	1109	39	22	5	4	2	1
RESPIRATORY AND INTRATHORACIC	160-165	1602	773	1536	753	55	15	9	3	2	2
BREAST	174-175	3	867	3	844		19		2		1
GENITAL ORGANS	179-187	683	501	664	482	18	15	1	3		1
URINARY ORGANS	188-189	317	165	306	161	7	3	3	1	1	
OTHER AND UNSPEC SITES 170-173,	190-199	686	604	655	581	25	19	4	1	2	3
OTHER LYMPH. AND HEMATOP.	200-203	296	282	288	272	6	10	1		1	
LEUKEMIA	204-208	217	179	210	173	6	5			1	1
BENIGN AND UNCERTAIN NEOPLASMS	210-239	50	62	45	58	4	3	1			1
DIABETES MELLITUS	250	310	476	296	440	10	29	2	6	2	
NUTRITIONAL DEFICIENCIES	260-269	25	53	24	53	1					
ANEMIAS	280-285	29	34	28	33	1	1				
MENINGITIS	320-322	9	9	9	9						
CIRCULATORY DISEASE	391-448	9910	10148	9649	9914	207	202	45	24	9	8
HEART	391-398,402,404-429	7963	7590	7753	7406	167	157	36	20	7	7
RHEUMATIC FEVER	391-398	36	81	34	80	2			1		
HYPERTENSIVE HEART DISEASE	402	111	158	102	151	8	7	1			
HYP. HEART AND RENAL DISEASE	404	15	15	13	13	2	1		1		
ISCHEMIC HEART DISEASE	410-414	6075	5418	5944	5305	101	95	26	14	4	4
ACUTE (INCL/MYO. INFARC)	410-411	3316	2604	3262	2539	35	53	16	10	3	2
CHRONIC (INCL. OLD M.I.)	412-414	2759	2814	2682	2766	66	42	10	4	1	2
OTHER ENDOCARDIAL DISEASES	424	120	170	117	169	2	1	1			
OTHER HEART DISEASE	415-423,425-429	1606	1748	1543	1688	52	53	8	4	3	3
HYPERTENSION W/ OR W/O RENAL	401,403	61	102	60	101	1	1				
CEREBROVASCULAR DISEASES	430-438	1403	1980	1363	1935	34	40	4	4	2	1
INTRACRANIAL HEMORRHAGE	431,432	193	232	186	229	6	3	1			
CEREBRAL OCCLUSION	434	161	243	156	237	5	5		1		
OTHER CEREBROVASC.	430,433,435-438	1049	1505	1021	1469	23	32	3	3	2	1
ATHEROSCLEROSIS	440	168	255	164	253	2	2	2			
OTHER ARTERIAL DISEASE	441-448	315	221	309	219	3	2	3			
ACUTE BRONCHITIS AND BRONCHIOLITIS	466	3	12	3	12						
PNEUMONIA AND INFLUENZA	480-487	868	929	838	917	25	11	4	1	1	
PNEUMONIA	480-486	849	898	819	886	25	11	4	1	1	
CHRONIC OBSTRUCTIVE PULMONARY	490-496	957	630	938	618	17	9	2	2		1
CHRONIC & UNSPEC. BRONCHITIS	490-491	36	21	36	21						
EMPHYSEMA	492	186	107	182	105	3	2	1			
ASTHMA	493	27	52	25	50	2	2				
OTHER CHRONIC PULMONARY	494-496	708	450	695	442	12	5	1	2		1
ULCER OF STOMACH AND DUODENUM	531-533	69	65	68	64	1	1				
APPENDICITIS	540-543	5	5	4	5	1					
ABD. HERNIA & INTEST. OBSTR.	550-553,560	41	88	40	84	1	3		1		
CHRONIC LIVER DIS. AND CIRRHOSIS	571	249	145	237	135	6	7	6	2		1
CHOLELITHIASIS AND GALLBLADDER	574-575	27	32	27	30		1		1		
NEPHRITIS AND NEPHROSIS	580-589	229	191	222	184	4	4	3	3		
INFECTIONS OF THE KIDNEY	590	9	24	9	24						
HYPERPLASIA OF THE PROSTATE	600	18		18							
COMPLICATIONS OF PREGNANCY	630-676		6		3		3				
OTHER COMPLICATIONS	640-676		6		3		3				
CONGENITAL ANOMALIES	740-759	149	95	137	84	8	8	1		3	3
CONDITIONS OF PERINATAL PERIOD	760-779	135	101	103	82	31	15	1	2		2
BIRTH TRAUMA	767-769	25	28	21	25	4			2		1
OTHER PERINATAL CONDS.	760-766,770-779	110	73	82	57	27	15	1			1
ILL DEFINED CONDITIONS	780-799	136	100	108	76	24	17	3	6	1	1
ALL OTHER DISEASES		1609	2061	1545	1998	56	53	3	10	4	
ACCIDENTS AND ADVERSE EFFECTS	800-949	1143	524	1059	498	55	19	18	5	11	2
MOTOR VEHICLE ACCIDENTS	810-825	572	252	535	239	15	7	14	4	8	2
OTHER	800-807,826-949	571	272	524	259	40	12	4	1	3	
SUICIDE	950-959	506	146	486	138	15	4	4	3		1
HOMICIDE AND LEGAL INTERVENT.	960-978	116	51	55	41	60	10	1			
ALL OTHER EXTERNAL CAUSES	980-999	31	16	25	14	5	2			1	

NOTE: FOUR OBSERVATIONS WITH RACE UNREPORTED INCLUDED IN TOTAL ONLY.

*** INCLUDES ICD-9 CODES 001-009,020-037,039-041,045-139

TABLE 2.4

DEATHS BY CAUSE
BY SEX
WISCONSIN 1988

(RESIDENT DATA)

		TOTAL	MALE	FEMALE
TOTAL DEATHS FROM ALL CAUSES		42979	22162	20817
I. INFECTIOUS AND PARASITIC DISEASES (001-139)		546	290	256
INTESTINAL INFECTIOUS DISEASES (001-009)		10	3	7
003	OTHER SALMONELLA INFECTIONS	3	1	2
008	INTESTINAL INFECTIONS DUE TO OTHER ORGANISMS	5	1	4
009	ILL-DEFINED INTESTINAL INFECTIONS	2	1	1
TUBERCULOSIS (010-018)		17	9	8
011	PULMONARY TUBERCULOSIS	14	8	6
015	TUBERCULOSIS OF BONES AND JOINTS	1	1	
017	TUBERCULOSIS OF OTHER ORGANS	1		1
018	MILIARY TUBERCULOSIS	1		1
ZOONOTIC BACTERIAL DISEASES (020-027)		2	1	1
027	OTHER ZOONOTIC BACTERIAL DISEASES	2	1	1
OTHER BACTERIAL DISEASES (030-041)		348	163	185
031	MYCOBACTERIA	4	2	2
034	STREPTOCOCCAL SORE THROAT AND SCARLATINA	1	1	
036	MENINGOCOCCAL INFECTIONS	5		5
038	SEPTICEMIA	328	155	173
039	ACTINOMYCOTIC INFECTIONS	2		2
041	BACTERIAL INFECTION CLASSIFIED ELSEWHERE & OF UNSPECIFIED SITE	8	5	3
HUMAN IMMUNODEFICIENCY VIRUS INFECTION (042-044)		58	55	3
042	HUMAN IMMUN. WITH SPECIFIED CONDITIONS	58	55	3
DISEASES ATTRIBUTABLE TO VIRUSES (045-079)		48	28	20
046	SLOW VIRUS INFECTIONS OF CENTRAL NERVOUS SYSTEM	8	5	3
049	OTHER NON-ARTHROPOD-BORNE VIRAL DISEASES OF CENT. NERVOUS SYSTEM	4	2	2
053	HERPES ZOSTER	1	1	
054	HERPES SIMPLEX	2	1	1
070	VIRAL HEPATITIS	16	11	5
072	MUMPS	1	1	
078	OTHER DISEASES DUE TO VIRUSES AND CHLAMYDIA	8	4	4
079	VIRAL INFECTION CLASSIFIED ELSEWHERE & OF UNSPECIFIED SITE	8	3	5
RICKETTSIOSES AND OTHER ARTHROPOD-BORNE DISEASES (080-088)		1	1	
088	OTHER ARTHROPOD-BORNE DISEASES	1	1	
SYPHILIS AND OTHER VENEREAL DISEASES (090-099)		1	1	
099	OTHER VENEREAL DISEASES	1	1	
MYCOSES (110-118)		27	15	12
112	CANDIDIASIS	13	6	7
114	COCCIDIOIDOMYCOSIS	1		1
115	HISTOPLASMOSIS	1	1	
116	BLASTOMYCOTIC INFECTION	1	1	
117	OTHER MYCOSES	11	7	4
OTHER INFECTIOUS AND PARASITIC DISEASES (130-136)		26	10	16
135	SARCOIDOSIS	5	1	4
136	OTHER AND UNSPECIFIED INFECTIOUS AND PARASITIC DISEASES	21	9	12
LATE EFFECTS OF INFECTIOUS AND PARASITIC DISEASES (137-139)		8	4	4
137	LATE EFFECTS OF TUBERCULOSIS	3	2	1
138	LATE EFFECTS OF ACUTE POLIOMYELITIS	5	2	3
II. NEOPLASMS (140-239)		9908	5288	4620
MALIGNANT NEOPLASMS OF LIP, ORAL CAVITY AND PHARYNX (140-149)		150	99	51
140	LIP	2	2	
141	TONGUE	37	22	15
142	MAJOR SALIVARY GLANDS	13	10	3
143	GUM	3	1	2
144	FLOOR OF MOUTH	7	4	3
145	OTHER AND UNSPECIFIED PARTS OF MOUTH	27	17	10
146	OROPHARYNX	9	4	5
147	NASOPHARYNX	12	8	4
148	HYPOPHARYNX	15	10	5
149	OTHER & ILL-DEFINED SITES WITHIN THE LIP, ORAL CAVITY & PHARYNX	25	21	4
MALIGNANT NEOPLASMS OF DIGESTIVE ORGANS AND PERITONEUM (150-159)		2471	1335	1136
150	ESOPHAGUS	186	134	52
151	STOMACH	296	174	122
152	SMALL INTESTINE, INCLUDING DUODENUM	14	7	7
153	COLON	1063	533	530
154	RECTUM, RECTOSIGMOID JUNCTION AND ANUS	180	110	70
155	LIVER AND INTRAHEPATIC BILE DUCTS	150	93	57
156	GALLBLADDER AND EXTRAHEPATIC BILE DUCTS	89	29	60
157	PANCREAS	446	237	209
158	RETROPERITONEUM AND PERITONEUM	10	2	8
159	ILL-DEFINED SITES WITHIN THE DIGESTIVE ORGANS AND PERITONEUM	37	16	21
MALIGNANT NEOPLASMS OF RESPIRATORY & INTRATHORACIC ORGANS (160-165)		2375	1602	773
160	NASAL CAVITIES, MIDDLE EAR AND ACCESSORY SINUSES	7	4	3
161	LARYNX	51	38	13
162	TRACHEA, BRONCHUS AND LUNG	2295	1544	751
163	PLEURA	9	7	2

TABLE 2.4

DEATHS BY CAUSE
BY SEX
WISCONSIN 1988

(RESIDENT DATA)

		TOTAL	MALE	FEMALE
164	THYMUS, HEART AND MEDIASTINUM	12	9	3
165	OTHER & ILL-DEFINED SITES IN RESPIRATORY & INTRATHORACIC ORGANS	1		1
MALIGNANT	NEOPLASMS OF BONE, CONNECTIVE TISSUE, SKIN AND BREAST (170-175)	1127	146	981
170	BONE AND ARTICULAR CARTILAGE	39	19	20
171	CONNECTIVE AND OTHER SOFT TISSUE	80	35	45
172	MELANOMA OF THE SKIN	103	64	39
173	OTHER MALIGNANT NEOPLASM OF SKIN	35	25	10
174	FEMALE BREAST	867		867
175	MALE BREAST	3	3	
MALIGNANT	NEOPLASMS OF GENITOURINARY ORGANS (179-189)	1666	1000	666
179	UTERUS, PART UNSPECIFIED	30		30
180	CERVIX UTERI	59		59
182	BODY OF UTERUS	103		103
183	OVARY AND OTHER UTERINE ADNEXA	279		279
184	OTHER AND UNSPECIFIED FEMALE GENITAL ORGANS	30		30
185	PROSTATE	669	669	
186	TESTIS	10	10	
187	PENIS AND OTHER MALE GENITAL ORGANS	4	4	
188	BLADDER	235	158	77
189	KIDNEY AND OTHER AND UNSPECIFIED URINARY ORGANS	247	159	88
MALIGNANT	NEOPLASMS OF OTHER AND UNSPECIFIED SITES (190-195,199)	1033	543	490
191	BRAIN	279	145	134
192	OTHER AND UNSPECIFIED PARTS OF NERVOUS SYSTEM	6	4	2
193	THYROID GLAND	18	5	13
194	OTHER ENDOCRINE GLANDS AND RELATED STRUCTURES	17	9	8
195	OTHER AND ILL-DEFINED SITES	62	31	31
199	NEOPLASM WITHOUT SPECIFCATION OF SITE	651	349	302
MALIGNANT	NEOPLASMS OF LYMPHATIC AND HEMATOPOIETIC TISSUE (200-208)	974	513	461
200	LYMPHOSARCOMA AND RETICULOSARCOMA	56	29	27
201	HODGKIN'S DISEASE	26	16	10
202	OTHER MALIGNANT NEOPLASM OF LYMPHOID AND HISTIOCYTIC TISSUE	318	152	166
203	MULTIPLE MYELOMA AND IMMUNOPROLIFERATIVE NEOPLASMS	178	99	79
204	LYMPHOID LEUKEMIA	122	67	55
205	MYELOID LEUKEMIA	147	77	70
206	MONOCYTIC LEUKEMIA	6	3	3
207	OTHER SPECIFIED LEUKEMIA	6	6	
208	LEUKEMIA OF UNSPECIFIED CELL TYPE	115	64	51
BENIGN	NEOPLASMS (210-229)	39	16	23
211	BENIGN NEOPLASMS OF OTHER PARTS OF DIGESTIVE SYSTEM	2	1	1
212	BENIGN NEOPLASM OF RESPIRATORY AND INTRATHORACIC ORGANS	4	2	2
215	OTHER BEIGN NEOPLASM OF CONNECTIVE AND OTHER SOFT TISSUE	2		2
220	BENIGN NEOPLASM OF OVARY	2		2
225	BENIGN NEOPLASM OF BRAIN AND OTHER PARTS OF NERVOUS SYSTEM	27	11	16
228	HAEMANGIOMA AND LYMPHANGIOMA, ANY SITE	1	1	
229	BENIGN NEOPLASM OF OTHER AND UNSPECIFIED SITES	1	1	
NEOPLASMS	OF UNCERTAIN BEHAVIOR (235-238)	46	21	25
235	NEOPLASM OF UNCERT. BEHAVIOR OF RESP. AND DIG. SYSTEMS	6	2	4
236	NEOPLASM OF UNCERT. BEHAVIOR OF GENITOURINARY ORGANS	3	1	2
237	NEOPLASM OF UNCERT. BEHAV. OF ENDOCR. GLANDS AND NERVOUS SYSTEM	4	1	3
238	NEOPLASM OF UNCERT. BEHAV. OF OTHER & UNSPEC. SITES & TISSUES	33	17	16
NEOPLASMS	OF UNSPECIFIED NATURE (239)	27	13	14
239	NEOPLASM OF UNSPECIFIED NATURE	27	13	14
III. ENDOCRINE, NUTRITIONAL & METABOLIC DISEASE AND IMMUNITY DISORDER (240-279)		1089	431	658
DISORDERS	OF THYROID GLAND (240-246)	18	4	14
240	SIMPLE AND UNSPECIFIED GOITER	1		1
242	THYROTOXICOSIS WITH OR WITHOUT GOITER	2	1	1
243	CONGENITAL HYPOTHYROIDISM	1		1
244	ACQUIRED HYPOTHYROIDISM	14	3	11
DISEASES	OF OTHER ENDOCRINE GLANDS (250-259)	797	316	481
250	DIABETES MELLITUS	786	310	476
251	OTHER DISORDERS OF PANCREATIC INTERNAL SECRETION	2	2	
252	DISORDERS OF PARATHYROID GLAND	1	1	
253	DISORDERS OF THE PITUITARY GLAND AND ITS HYPOTHALAMIC CONTROL	2		2
255	DISORDERS OF ADRENAL GLANDS	3	2	1
259	OTHER ENDOCRINE DISORDERS	3	1	2
NUTRITIONAL	DEFICIENCIES (260-269)	78	25	53
260	KWASHIORKOR	5	1	4
261	NUTRITIONAL MARASMUS	2		2
263	OTHER AND UNSPECIFIED PROTEIN-CALORIE MALNUTRITION	70	24	46
266	DEFICIENCY OF B-COMPLEX COMPONENTS	1		1
OTHER METABOLIC	DISORDERS AND IMMUNITY DISORDERS (270-279)	196	86	110
270	DISORDERS OF AMINO-ACID TRANSPORT AND METABOLISM	1	1	
272	DISORDERS OF LIPOID METABOLISM	16	4	12
273	DISORDERS OF PLASMA PROTEIN METABOLISM	10	5	5
274	GOUT	4	4	
275	DISORDERS OF MINERAL METABOLISM	5	5	

TABLE 2.4

DEATHS BY CAUSE
BY SEX
WISCONSIN 1988

(RESIDENT DATA)

		TOTAL	MALE	FEMALE
276	DISORDERS OF FLUID, ELECTROLYTE AND ACID-BASE BALANCE	96	31	65
277	OTHER AND UNSPECIFIED DISORDERS OF METABOLISM	33	20	13
278	OBESITY AND OTHER HYPERALIMENTATION	23	12	11
279	DISORDERS INVOLVING THE IMMUNE MECHANISM	8	4	4
IV. DISEASES OF BLOOD AND BLOOD-FORMING ORGANS (280-289)		162	77	85
280	IRON DEFICIENCY ANEMIAS	3	1	2
281	OTHER DEFICIENCY ANEMIAS	2		2
282	HEREDITARY HEMOLYTIC ANEMIAS	5	3	2
283	ACQUIRED HEMOLYTIC ANEMIAS	2	1	1
284	APLASTIC ANEMIA	28	15	13
285	OTHER AND UNSPECIFIED ANEMIAS	23	9	14
286	COAGULATION DEFECTS	15	6	9
287	PURPURA AND OTHER HEMORRHAGIC CONDITIONS	11	6	5
288	DISEASES OF WHITE BLOOD CELLS	12	5	7
289	OTHER DISEASES OF BLOOD AND BLOOD-FORMING ORGANS	61	31	30
V. MENTAL DISORDERS (290-319)		626	263	363
ORGANIC PSYCHOTIC CONDITIONS (290-294)		238	90	148
290	SENILE AND PRESENILE ORGANIC PSYCHOTIC CONDITIONS	227	83	144
291	ALCOHOLIC PSYCHOSES	5	4	1
294	OTHER ORGANIC PSYCHOTIC CONDITIONS (CHRONIC)	6	3	3
OTHER PSYCHOSES (295-299)		136	44	92
295	SCHIZOPHRENIC PSYCHOSES	14	4	10
296	AFFECTIVE PSYCHOSES	1		1
298	OTHER NON-ORGANIC PSYCHOSES	121	40	81
NEUROTIC, PERSONALITY AND OTHER NONPSYCHOTIC MENTAL DISORDERS (300-316)		246	125	121
300	NEUROTIC DISORDERS	1		1
303	ALCOHOL DEPENDENCE SYNDROME	72	58	14
304	DRUG DEPENDENCE	1		1
305	NONDEPENDENT ABUSE OF DRUGS	21	17	4
307	SPECIAL SYMPTOMS OR SYNDROMES NOT ELSEWHERE CLASSIFIED	7	4	3
310	SPECIFIC NONPSYCHOTIC MENTAL DISORDER AFTER ORGANIC BRAIN DAMAGE	131	44	87
311	DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED	13	2	11
MENTAL RETARDATION (317-319)		6	4	2
319	UNSPECIFIED MENTAL RETARDATION	6	4	2
VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS (320-389)		945	468	477
INFLAMMATORY DISEASES OF THE CENTRAL NERVOUS SYSTEM (320-326)		33	17	16
320	BACTERIAL MENINGITIS	13	5	8
322	MENINGITIS OF UNSPECIFIED CAUSE	5	4	1
323	ENCEPHALITIS, MYELITIS AND ENCEPHALOMYELITIS	9	6	3
324	INTRACRANIAL AND INTRASPINAL ABSCESS	5	2	3
326	LATE EFFECTS OF INTRACRANIAL ABSESS OR PYOGENIC INFECTION	1		1
HEREDITARY & DEGENERATIVE DISEASES OF CENTRAL NERVOUS SYSTEM (330-337)		709	347	362
330	CEREBRAL DEGENERATIONS USUALLY MANIFEST IN CHILDHOOD	4	3	1
331	OTHER CEREBRAL DEGENERATIONS	402	168	234
332	PARKINSON'S DISEASE	190	115	75
333	OTHER EXTRAPYRAMIDAL DISEASE & ABNORMAL MOVEMENT DISORDERS	19	8	11
334	SPINOCEREBELLAR DISEASE	8	7	1
335	ANTERIOR HORN CELL DISEASE	84	45	39
336	OTHER DISEASES OF SPINAL CORD	2	1	1
OTHER DISORDERS OF THE CENTRAL NERVOUS SYSTEM (340-349)		152	76	76
340	MULTIPLE SCLEROSIS	30	11	19
341	OTHER DEMYELINATING DISEASES OF CENTRAL NERVOUS SYSTEM	3	1	2
342	HEMIPLEGIA	2	1	1
343	INFANTILE CEREBRAL PALSY	12	7	5
344	OTHER PARALYTIC SYNDROMES	18	9	9
345	EPILEPSY	23	11	12
348	OTHER CONDITIONS OF BRAIN	57	33	24
349	OTHER AND UNSPECIFIED DISORDERS OF THE NERVOUS SYSTEM	7	3	4
DISORDERS OF THE PERIPHERAL NERVOUS SYSTEM (350-359)		48	28	20
355	MONONEURITIS OF LOWER LIMB	1		1
356	HEREDITARY AND IDIOPATHIC PERIPHERAL NEUROPATHY	9	6	3
357	INFLAMMATORY AND TOXIC NEUROPATHY	6	3	3
358	MYONEURAL DISORDERS	11	5	6
359	MUSCULAR DYSTROPHIES AND OTHER MYOPATHIES	21	14	7
DISORDERS OF THE EYE AND ADNEXA (360-379)		3		3
365	GLAUCOMA	1		1
366	CATARACT	1		1
369	BLINDNESS AND LOW VISION	1		1
VII. DISEASES OF THE CIRCULATORY SYSTEM (390-459)		20141	9948	10193
ACUTE RHEUMATIC FEVER (390-392)		2	1	1
390	RHEUMATIC FEVER WITHOUT MENTION OF HEART INVOLVEMENT	1		1
391	RHEUMATIC FEVER WITH HEART INVOLVEMENT	1	1	
CHRONIC RHEUMATIC HEART DISEASE (393-398)		116	35	81

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		TOTAL	MALE	FEMALE
394	DISEASES OF MITRAL VALVE	51	12	39
395	DISEASES OF AORTIC VALVE	2	2	
396	DISEASES OF MITRAL AND AORTIC VALVES	16	7	9
397	DISEASES OF OTHER ENDOCARDIAL STRUCTURES	11	5	6
398	OTHER RHEUMATIC HEART DISEASE	36	9	27
HYPERTENSIVE DISEASE (401-404)		462	187	275
401	ESSENTIAL HYPERTENSION	74	27	47
402	HYPERTENSIVE HEART DISEASE	269	111	158
403	HYPERTENSIVE RENAL DISEASE	89	34	55
404	HYPERTENSIVE HEART AND RENAL DISEASE	30	15	15
ISCHEMIC HEART DISEASE (410-414)		11493	6075	5418
410	ACUTE MYOCARDIAL INFARCTION	5892	3300	2592
411	OTHER ACUTE AND SUBACUTE FORMS OF ISCHEMIC HEART DISEASE	28	16	12
412	OLD MYOCARDIAL INFARCTION	17	12	5
413	ANGINA PECTORIS	22	11	11
414	OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE	5534	2736	2798
DISEASES OF PULMONARY CIRCULATION (415-417)		293	146	147
415	ACUTE PULMONARY HEART DISEASE	257	129	128
416	CHRONIC PULMONARY HEART DISEASE	36	17	19
OTHER FORMS OF HEART DISEASE (420-429)		3351	1580	1771
420	ACUTE PERICARDITIS	2	2	
421	ACUTE AND SUBACUTE ENDOCARDITIS	19	12	7
422	ACUTE MYOCARDITIS	3	2	1
423	OTHER DISEASES OF PERICARDIUM	11	8	3
424	OTHER DISEASES OF ENDOCARDIUM	290	120	170
425	CARDIOMYOPATHY	412	271	141
426	CONDUCTION DISORDERS	21	9	12
427	CARDIAC DYSRHYTHMIAS	663	325	338
428	HEART FAILURE	991	428	563
429	ILL-DEFINED DESCRIPTIONS AND COMPLICATIONS OF HEART DISEASE	939	403	536
CEREBROVASCULAR DISEASE (430-438)		3383	1403	1980
430	SUBARACHNOID HEMORRHAGE	132	50	82
431	INTRACEREBRAL HEMORRHAGE	376	168	208
432	OTHER AND UNSPECIFIED INTRACRANIAL HEMORRHAGE	49	25	24
433	OCCLUSION AND STENOSIS OF PRECEREBAL ARTERIES	29	13	16
434	OCCLUSION OF CEREBRAL ARTERIES	404	161	243
435	TRANSIENT CEREBRAL ISCHEMIA	12	3	9
436	ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE	1939	781	1158
437	OTHER AND ILL-DEFINED CEREBROVASCULAR DISEASE	243	89	154
438	LATE EFFECTS OF CEREBROVASCULAR DISEASE	199	113	86
DISEASES OF ARTERIES, ARTERIOLES AND CAPILLARIES (440-448)		959	483	476
440	ARTERIOSCLEROSIS	423	168	255
441	AORTIC ANEURYSM	351	226	125
442	OTHER ANEURYSM	12	8	4
443	OTHER PERIPHERAL VASCULAR DISEASE	80	35	45
444	ARTERIAL EMBOLISM AND THROMBOSIS	43	19	24
446	POLYARTERITIS NODOSA AND ALLIED CONDITIONS	20	11	9
447	OTHER DISORDERS OF ARTERIES AND ARTERIOLES	28	16	12
448	DISEASES OF CAPILLARIES	2		2
DISEASES OF VEINS, LYMPHATICS & OTHER CIRCULATORY SYSTEM DISEASE (451-459)		82	38	44
451	PHLEBITIS AND THROMBOPHLEBITIS	34	13	21
453	OTHER VENOUS EMBOLISM AND THROMBOSIS	9	5	4
454	VARICOSE VEINS OF LOWER EXTREMITIES	2	1	1
456	VARICOSE VEINS OF OTHER SITES	6	6	
457	NONINFECTIVE DISORDERS OF LYMPHATIC CHANNELS	1	1	
458	HYPOTENSION	13	7	6
459	OTHER DISORDERS OF CIRCULATORY SYSTEM	17	5	12
VIII. DISEASES OF THE RESPIRATORY SYSTEM (460-519)		3911	2100	1811
ACUTE RESPIRATORY INFECTIONS (460-466)		25	8	17
461	ACUTE SINUSITIS	1		1
464	ACUTE LARYNGITIS AND TRACHEITIS	1	1	
465	ACUTE UPPER RESP. INFECTIONS OF MULTIPLE OR UNSPECIFIED SITE	8	4	4
466	ACUTE BRONCHITIS AND BRONCHIOLITIS	15	3	12
OTHER DISEASES OF UPPER RESPIRATORY TRACT (470-478)		12	4	8
471	NASAL POLYPS	1		1
473	CHRONIC SINUSITIS	1	1	
475	PERITONSILLAR ABSCESS	1		1
476	CHRONIC LARYNITIS AND LARYNGOTRACHEITIS	1	1	
478	OTHER DISEASES OF UPPER RESPIRATORY TRACT	8	2	6
PNEUMONIA AND INFLUENZA (480-487)		1797	868	929
480	VIRAL PNEUMONIA	16	10	6
481	PNEUMOCOCCAL PNEUMONIA	39	25	14
482	OTHER BACTERIAL PNEUMONIA	53	28	25
483	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM	1	1	
485	BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED	194	87	107
486	PNEUMONIA, ORGANISM UNSPECIFIED	1444	698	746

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		TOTAL	MALE	FEMALE
487	INFLUENZA	50	19	31
CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND ALLIED CONDITIONS (490-496)		1587	957	630
490	BRONCHITIS, NOT SPECIFIED AS ACUTE OR CHRONIC	12	5	7
491	CHRONIC BRONCHITIS	45	31	14
492	EMPHYSEMA	293	186	107
493	ASTHMA	79	27	52
494	BRONCHIECTASIS	16	6	10
495	EXTRINSIC ALLERGIC ALVEOLITIS	1	1	
496	CHRONIC AIRWAYS OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	1141	701	440
PNEUMOCONIOSES AND OTHER LUNG DISEASES DUE TO EXTERNAL AGENTS (500-508)		205	109	96
500	COALWORKERS' PNEUMOCONIOSIS	1	1	
501	ASBESTOSIS	1	1	
502	PNEUMOCONIOSIS DUE TO OTHER SILICA OR SILICATES	10	10	
504	PNEUMOPATHY DUE TO INHALAED	1	1	
505	PNEUMOCONIOSIS, UNSPECIFIED	1	1	
507	PNEUMONITIS DUE TO SOLIDS AND LIQUIDS	191	95	96
OTHER DISEASES OF RESPIRATORY SYSTEM (510-519)		285	154	131
510	EMPYEMA	10	8	2
511	PLEURISY	12	7	5
513	ABSCESS OF LUNG AND MEDIASTINUM	12	8	4
514	PULMONARY CONGESTION AND HYPOSTASIS	13	5	8
515	POSTINFLAMMATORY PULMONARY FIBROSIS	122	62	60
516	OTHER ALVEOLAR AND PARIETOALVEOLAR PNEUMOPATHY	13	11	2
518	OTHER DISEASES OF LUNG	78	45	33
519	OTHER DISEASES OF RESPIRATORY SYSTEM	25	8	17
IX. DISEASES OF THE DIGESTIVE SYSTEM (520-579)		1377	642	735
DISEASES OF ORAL CAVITY, SALIVARY GLANDS AND JAWS (520-529)		1		1
527	DISEASES OF THE SALIVARY GLANDS	1		1
DISEASES OF ESOPHAGUS, STOMACH AND DUODENUM (530-537)		207	103	104
530	DISEASES OF ESOPHAGUS	54	26	28
531	GASTRIC ULCER	37	14	23
532	DUODENAL ULCER	41	25	16
533	PEPTIC ULCER, SITE UNSPECIFIED	56	30	26
535	GASTRITIS AND DUODENITIS	11	4	7
536	DISORDERS OF FUNCTION OF STOMACH	3	1	2
537	OTHER DISORDERS OF STOMACH AND DUODENUM	5	3	2
APPENDICITIS (540-543)		10	5	5
540	ACUTE APPENDICITIS	6	3	3
541	APPENDICITIS, UNQUALIFIED	3	2	1
543	OTHER DISEASES OF APPENDIX	1		1
HERNIA OF ABDOMINAL CAVITY (550-553)		35	14	21
550	INGUINAL HERNIA	5	5	
551	OTHER HERNIA OF ABDOMINAL CAVITY, WITH GANGRENE	2	2	
552	OTHER ABDOM. CAV. HERNIA, W/ OBSTRUCTION W/O MENTION OF GANGRENE	11	2	9
553	OTHER ABDOM. CAV. HERINA, W/O MENTION OF OBSTRUCTION OR GANGRENE	17	5	12
NOMINFECTIVE ENTERITIS AND COLITIS (555-558)		188	61	127
555	REGIONAL ENTERITIS	6	4	2
556	IDIOPATHIC PROCTOCOLITIS	9	3	6
557	VASCULAR INSUFFICIENCY OF INTESTINE	141	46	95
558	OTHER NONINFECTIVE GASTROENTERITIS AND COLITIS	32	8	24
OTHER DISEASES OF INTESTINES AND PERITONEUM (560-569)		218	69	149
560	INTESTINAL OBSTRUCTION WITHOUT MENTION OF HERINA	94	27	67
562	DIVERTICULA OF INTESTINE	56	15	41
564	FUNCTIONAL DIGESTIVE DISORDERS, NOT ELSEWHERE CLASSIFIED	7	4	3
566	ABSCESS OF ANAL AND RECTAL REGIONS	4	4	
567	PERITONITIS	35	13	22
568	OTHER DISORDERS OF PERITONEUM	3		3
569	OTHER DISORDERS OF INTESTINE	19	6	13
OTHER DISEASES OF DIGESTIVE SYSTEM (570-579)		718	390	328
570	ACUTE AND SUBACUTE NECROSIS OF LIVER	5	4	1
571	CHRONIC LIVER DISEASE AND CIRRHOSIS	394	249	145
572	LIVER ABSCESS AND SEQUELAE OF CHRONIC LIVER DISEASE	58	29	29
573	OTHER DISORDERS OF LIVER	20	8	12
574	CHOLELITHIASIS	35	15	20
575	OTHER DISORDERS OF GALLBLADDER	24	12	12
576	OTHER DISORDERS OF BILIARY TRACT	16	4	12
577	DISEASES OF PANCREAS	35	21	14
578	GASTROINTESTINAL HEMORRHAGE	129	46	83
579	INTESTINAL MALABSORPTION	2	2	
X. DISEASES OF THE GENITOURINARY SYSTEM (580-629)		799	377	422
NEPHRITIS, NEPHROTIC SYNDROME AND NEPHOSIS (580-589)		420	229	191
581	NEPHROTIC SYNDROME	3	2	1
582	CHRONIC GLOMERULONEPHRITIS	26	15	11
583	NEPHRITIS AND NEPHROPATHY, NOT SPECIFIED AS ACUTE OR CHRONIC	12	7	5
584	ACUTE RENAL FAILURE	60	36	24

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		TOTAL	MALE	FEMALE
585	CHRONIC RENAL FAILURE	90	51	39
586	RENAL FAILURE, UNSPECIFIED	227	116	111
587	RENAL SCLEROSIS, UNSPECIFIED	1	1	
588	DISORDERS RESULTING FROM IMPAIRED RENAL FUNCTION	1	1	
	OTHER DISEASES OF URINARY SYSTEM (590-599)	353	125	228
590	INFECTIONS OF KIDNEY	33	9	24
591	HYDRONEPHROSIS	4	1	3
592	CALCULUS OF KIDNEY AND URETER	7	3	4
593	OTHER DISORDERS OF KIDNEY AND URETER	45	17	28
594	CALCULUS OF LOWER URINARY TRACT	1	1	
595	CYSTITIS	2		2
596	OTHER DISORDERS OF BLADDER	5	3	2
598	URETHRAL STRICTURE	3	3	
599	OTHER DISORDERS OF URETHRA AND URINARY TRACT	253	88	165
	DISEASES OF MALE GENITAL ORGANS (600-608)	23	23	
600	HYPERPLASIA OF PROSTATE	18	18	
601	INFLAMMATORY DISEASES OF PROSTATE	2	2	
602	OTHER DISORDERS OF PROSTATE	2	2	
608	OTHER DISORDERS OF MALE GENITAL ORGANS	1	1	
	DISORDERS OF BREAST (610-611)	1		1
611	OTHER DISORDERS OF BREAST	1		1
	INFLAMMATORY DISEASE OF FEMALE PELVIC ORGANS (614-616)	2		2
614	INFLAM. DIS. OF OVARY, FALLOP. TUBE, PELVIC CELL TISS. & PERITON	1		1
615	INFLAMMATORY DISEASES OF UTERUS, EXCEPT CERVIX	1		1
XI.	COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM (630-676)	6		6
	COMPLICATIONS MAINLY RELATED TO PREGNANCY (640-648)	1		1
642	HYPERTENSION COMPLICATING PREGNANCY, CHILDBIRTH & THE PUERPERIUM	1		1
	COMPLICATIONS OCCURRING MAINLY IN THE COURSE OF LABOR & DELIV. (660-669)	3		3
669	OTHER COMPLICATIONS OF LABOUR & DELIVERY, NOT ELSEWHERE CLASS...	3		3
	COMPLICATIONS OF THE PUERPERIUM (670-676)	2		2
673	OBSTETRICAL PULMONARY EMBOLISM	1		1
674	OTHER AND UNSPECIFIED COMPLICATIONS OF THE PEURPERIUM, NEC	1		1
XII.	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE (680-709)	66	16	50
	INFECTIONS OF SKIN AND SUBCUTANEOUS TISSUE (680-686)	14	4	10
682	OTHER CELLULITIS AND ABSCESS	9	1	8
686	OTHER LOCAL INFECTIONS OF SKIN AND SUBCUTANEOUS TISSUE	5	3	2
	OTHER INFLAMMATORY CONDITIONS OF SKIN AND SUBCUTANEOUS TISSUE (690-698)	7	1	6
692	CONTACT DERMATITIS AND OTHER ECZEMA	1		1
694	BULLOUS DERMATOSES	3	1	2
695	ERYTHEMATOUS CONDITIONS	3		3
	OTHER DISEASES OF SKIN AND SUBCUTANEOUS TISSUE (700-709)	45	11	34
707	CHRONIC ULCER OF SKIN	44	11	33
709	OTHER DISORDERS OF SKIN AND SUBCUTANEOUS TISSUE	1		1
XIII.	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (710-739)	153	45	108
	ARTHROPATHIES AND RELATED DISORDERS (710-719)	107	34	73
710	DIFFUSE DISEASES OF CONNECTIVE TISSUE	39	10	29
711	ARTHROPATHY ASSOCIATED WITH INFECTIONS	1		1
714	RHEUMATOID ARTHRITIS AND OTHER INFLAMMATORY POLYARTHROPATHIES	35	12	23
715	OSTEOARTHROSIS AND ALLIED DISORDERS	20	5	15
716	OTHER AND UNSPECIFIED ARTHROPATHIES	5	3	2
719	OTHER AND UNSPECIFIED DISORDER OF JOINT	7	4	3
	DORSOPATHIES (720-724)	5	2	3
721	SPONDYLOSIS AND ALLIED DISORDERS	2	1	1
723	OTHER DISORDERS OF CERVICORDERS OF BACK	1		1
724	OTHER AND UNSPECIFIED DISMBE	2	1	1
	RHEUMATISM, EXCLUDING THE BACK (725-729)	2		2
729	OTHER DISORDERS OF SOFT TISSUES	2		2
	OSTEOPATHIES, CHONDROPATHIES & ACQUIRED MUSCULOSKELETAL DEFORM. (730-739)	39	9	30
730	OSTEOMYELITIS, PERIOSTITIS AND OTHER INFECTIONS INVOLVING BONE	9	2	7
731	OSTEITIS DEFORMANS & OSTEOPATHIES ASSOC. W/ OTHER DISORDERS	1	1	
733	OTHER DISORDERS OF BONE AND CARTILAGE	25	4	21
737	CURVATURE OF SPINE	4	2	2
XIV.	CONGENITAL ANOMALIES (740-759)	245	150	95
740	ANENCEPHALUS AND SIMILAR ANOMALIES	9	5	4
741	SPINA BIFIDA	2	1	1
742	OTHER CONGENITAL ANOMALIES OF NERVOUS SYSTEM	16	8	8
745	BULBUS CORDIS AND CARDIAC SEPTAL CLOSURE ANOMALIES	26	18	8
746	OTHER CONGENITAL ANOMALIES OF HEART	54	36	18
747	OTHER CONGENITAL ANOMALIES OF CIRCULATORY SYSTEM	26	14	12
748	CONGENITAL ANOMALIES OF RESPIRATORY SYSTEM	17	12	5
749	CLEFT PALATE AND CLEFT LIP	1		1
750	OTHER CONGENITAL ANOMALIES OF UPPER ALIMENTARY TRACT	3	3	
751	OTHER CONGENITAL ANOMALIES OF DIGESTIVE SYSTEM	1	1	

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		TOTAL	MALE	FEMALE
752	CONGENITAL ANOMALIES OF GENITAL ORGANS	1		1
753	CONGENITAL ANOMALIES OF URINARY SYSTEM	21	13	8
754	CERTAIN CONGENITAL MUSCULOSKELETAL DEFORMITIES	1		1
755	OTHER CONGENITAL ANOMALIES OF LIMBS	3	3	
756	OTHER CONGENITAL MUSCULOSKELETAL ANOMALIES	18	12	6
757	CONGENITAL ANOMALIES OF THE INTEGUMENT	1		1
758	CHROMOSOMAL ANOMALIES	26	12	14
759	OTHER AND UNSPECIFIED CONGENITAL ANOMALIES	19	12	7
XV. CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD (760-779)		236	135	101
760	FETUS/NEWBORN AFFECTED BY POSSIBLE UNRELATED MAT. COND. OF PREG.	2	2	
761	FETUS/NEWBORN AFFECTED BY MATERNAL COMPLICATIONS OF PREGNANCY	35	21	14
762	FETUS/NEWBORN AFFECTED BY COMPS. OF PLACENTA, CORD & MEMBRANES	22	18	4
763	FETUS/NEWBORN AFFECTED BY OTHER COMPS. OF LABOR AND DELIVERY	2		2
765	DISORDERS RELATING TO SHORT GESTATION & UNSPEC. LOW BIRTHWEIGHT	31	13	18
767	BIRTH TRAUMA	3		3
768	INTRAUTERINE HYPOXIA AND BIRTH ASPHYXIA	9	3	6
769	RESPIRATORY DISTRESS SYNDROME	41	22	19
770	OTHER RESPIRATORY CONDITIONS OF FETUS AND NEWBORN	46	31	15
771	INFECTIONS SPECIFIC TO THE PERINATAL PERIOD	19	10	9
772	FETAL AND NEONATAL HEMORRHAGE	2		2
777	PERINATAL DISORDERS OF DIGESTIVE SYSTEM	3	2	1
778	CONDS. INVOLVING INTEGUMENT & TEMPERATURE REG. OF FETUS/NEWBORN	2	2	
779	OTHER & ILL-DEFINED CONDITIONS ORIGINATING IN PERINATAL PERIOD	19	11	8
XVI. SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS (780-799)		236	136	100
SYMPTOMS (780-789)		40	23	17
780	GENERAL SYMPTOMS	12	8	4
783	SYMPTOMS INVOLVING NUTRITION, METABOLISM AND DEVELOPMENT	1		1
785	SYMPTOMS INVOLVING CARDIOVASCULAR SYSTEM	19	11	8
786	SYMPTOMS INVOLVING RESPIRATORY SYSTEM AND OTHER CHEST SYMPTOMS	5	3	2
789	OTHER SYMPTOMS INVOLVING ABDOMEN AND PELVIS	3	1	2
ILL-DEFINED & UNKNOWN CAUSES OF MORBIDITY AND MORTALITY (797-799)		196	113	83
797	SENILITY WITHOUT MENTION OF PSYCHOSIS	2	1	1
798	SUDDEN DEATH, CAUSE UNKNOWN	132	74	58
799	OTHER ILL-DEFINED & UNKNOWN CAUSES OF MORBIDITY AND MORTALITY	62	38	24
XVII. SUPPLEMENTARY CLASSIF. OF EXTERNAL CAUSES OF INJURY & POISONING (800-999)		2533	1796	737
RAILWAY ACCIDENTS (800-807)		5	4	1
805	HIT BY ROLLING STOCK	5	4	1
MOTOR VEHICLE TRAFFIC ACCIDENTS (810-819)		790	545	245
810	MOTOR VEHICLE TRAFFIC ACCIDENT INVOLVING COLLISION WITH TRAIN	9	4	5
812	OTHER MOTOR VEHICLE TRAFFIC ACC. INVOLV. COLLIS. W/MOTOR VEHICLE	343	219	124
813	MOTOR VEHICLE TRAFFIC ACCIDENT INVOLV. COLLISION W/OTHER VEHICLE	14	11	3
814	MOTOR VEHICLE TRAFFIC ACCIDENT INVOLVING COLLISION W/PEDESTRIAN	84	48	36
815	OTHER MOTOR VEHICLE TRAFFIC ACC. INVOLVING COLLISION ON HIGHWAY	104	79	25
816	MOTOR VEHIC. TRAFFIC ACC. DUE TO CONTROL LOSS W/O HIGHWAY COLL.	212	169	43
818	OTHER NON-COLLISION MOTOR VEHICLE TRAFFIC ACCIDENT	5	2	3
819	MOTOR VEHICLE TRAFFIC ACCIDENT OF UNSPECIFIED NATURE	19	13	6
MOTOR VEHICLE NONTRAFFIC ACCIDENTS (820-825)		34	27	7
820	NONTRAFFIC ACCIDENT INVOLVING MOTOR-DRIVEN SNOW VEHICLE	10	9	1
821	NONTRAFFIC ACCIDENT INVOLVING OTHER OFF-ROAD MOTOR VEHICLE	3	3	
822	OTHER MOTOR VEHICLE NONTRAF. ACC. INVOLV. COLL. W/ MOVING OBJECT	8	5	3
823	OTHER MOTOR VEHIC. NONTRAF. ACC. INVOL. COLL. W/ STATIONARY OBJ.	5	4	1
824	OTHER MOT. VEH. NONTRAFFIC ACC. WHILE BOARDING & ALIGHTING	1	1	
825	OTHER MOTOR VEHIC. NONTRAF. ACC. OF OTHER & UNSPEC. NATURE	7	5	2
OTHER ROAD VEHICLE ACCIDENTS (826-829)		5	4	1
826	PEDAL CYCLE ACCIDENT	4	4	
828	ACCIDENT INVOLVING ANIMAL BEING RIDDEN	1		1
WATER TRANSPORT ACCIDENTS (830-838)		20	20	
830	ACCIDENT TO WATERCRAFT CAUSING SUBMERSION	2	2	
831	ACCIDENT TO WATERCRAFT CAUSING OTHER INJURY	3	3	
832	OTHER ACCIDENTAL SUBMERSION OR DROWNING IN WATER TRANSPORT ACCID	11	11	
838	OTHER AND UNSPECIFIED WATER TRANSPORT ACCIDENT	4	4	
AIR AND SPACE TRANSPORT ACCIDENTS (840-845)		12	11	1
841	ACCIDENT TO POWERED AIRCRAFT, OTHER AND UNSPECIFIED	11	10	1
844	OTHER SPECIFIED AIR TRANSPORT ACCIDENTS	1	1	
ACCIDENTAL POISONING BY DRUGS, MEDICAMENTS & BIOLOGICALS (850-858)		62	39	23
850	ACCIDENTAL POISONING BY ANALGESICS, ANTIPYRETIC & ANTIRHEUMATICS	11	5	6
852	ACCIDENTAL POISONING BY OTHER SEDATIVES AND HYPNOTICS	1	1	
853	ACCIDENTAL POISONING BY TRANQUILLIZERS	1		1
854	ACCIDENTAL POISONING BY OTHER PSYCHOTROPIC AGENTS	1		1
855	ACC. POISON. BY OTHER DRUGS ACTING ON CENT. & AUTONOMIC NER. SYS	18	15	3
858	ACCIDENTAL POISONING BY OTHER DRUGS	30	18	12
ACCIDENTAL POISONING BY OTHER SOLIDS, LIQUIDS, GASES OR VAPORS (860-869)		27	19	8
860	ACCIDENTAL POISONING BY ALCOHOL, NOT ELSEWHERE CLASSIFIED	1	1	
862	ACC. POIS. BY PETROLEUM & SOLVENTS & THEIR VAPORS, NOT ELSE CLAS	1		1

TABLE 2.4

DEATHS BY CAUSE
BY SEX
WISCONSIN 1988

(RESIDENT DATA)

		TOTAL	MALE	FEMALE
864	ACC. POIS. BY CORROSIVES AND CAUSTICS, NOT ELSEWHERE CLASSIFIED.	1		1
868	ACCIDENTAL POISONING BY OTHER UTILITY GAS & OTHER CARB. MONOXIDE	24	18	6
MISADVENTURES TO PATIENTS DURING SURGICAL AND MEDICAL CARE (870-876)		1		1
870	ACCIDENTAL CUT, PUNCTURE, PERFORATION DURING MEDICAL CARE	1		1
SURG/MED PROC. CAUSING ABNORM. REACT./COMP.,W/O MENT. OF MISAD. (878-879).		4	2	2
878	SURG. OPS. & PROCS. CAUSING ABNORMAL REACT. OR LATER COMPLICAT.	3	2	1
879	OTHER PROCEDURES AS CAUSE OF ABNORMAL REACTION OR LATER COMPLIC.	1		1
ACCIDENTAL FALLS (880-888)		307	171	136
880	FALL ON OR FROM STAIRS OR STEPS	46	29	17
881	FALL ON OR FROM LADDERS OR SCAFFOLDING	4	4	
882	FALL FROM OR OUT OF BUILDING OR OTHER STRUCTURE	5	4	1
884	OTHER FALL FROM ONE LEVEL TO ANOTHER	38	26	12
885	FALL ON SAME LEVEL FROM SLIPPING, TRIPPING OR STUMBLING	14	3	11
887	FRACTURE, CAUSE UNSPECIFIED	8	4	4
888	OTHER AND UNSPECIFIED FALL	192	101	91
ACCIDENTS CAUSED BY FIRE AND FLAMES (890-899)		74	51	23
890	CONFLAGRATION IN PRIVATE DWELLING	66	44	22
892	CONFLAGRATION NOT IN BUILDING OR STRUCTURE	5	5	
893	ACCIDENT CAUSED BY IGNITION OF CLOTHING	1		1
897	ACCIDENT CAUSED BY CONTROLLED FIRE NOT IN BUILDING OR STRUCTURE.	1	1	
898	ACCIDENT CAUSED BY OTHER SPECIFIED FIRE AND FLAMES	1	1	
ACCIDENTS DUE TO NATURAL AND ENVIRONMENTAL FACTORS (900-909)		42	27	15
900	EXCESSIVE HEAT	11	6	5
901	EXCESSIVE COLD	23	14	9
904	HUNGER, THIRST, EXPOSURE, NEGLECT	3	3	
907	LIGHTNING	5	4	1
ACCIDENTS CAUSED BY SUBMERSION, SUFFOCATION, & FOREIGN BODIES (910-915)		158	112	46
910	ACCIDENTAL DROWNING AND SUBMERSION	64	53	11
911	FOOD INHALATION & INGESTION CAUSING RESP. TRACT OBS./SUFFOCATION	36	17	19
912	OTHER OBJECT INHAL./INGES. CAUSING RESP. TRACT OBS./SUFFOCATION	29	19	10
913	ACCIDENTAL MECHANICAL SUFFOCATION	27	22	5
915	FOREIGN BODY ACCIDENTALLY ENTERING OTHER ORIFICE	2	1	1
OTHER ACCIDENTS (916-928)		108	99	9
916	STRUCK ACCIDENTALLY BY FALLING OBJECT	11	11	
917	STRIKING AGAINST OR STRUCK ACCIDENTALLY BY OBJECTS OR PERSONS	2	2	
918	CAUGHT ACCIDENTALLY IN OR BETWEEN OBJECTS	3	3	
919	ACCIDENT CAUSED BY MACHINERY	42	38	4
921	ACCIDENT CAUSED BY EXPLOSION OF PRESSURE VESSEL	1	1	
922	ACCIDENT CAUSED BY FIREARM MISSILE	18	18	
923	ACCIDENT CAUSED BY EXPLOSIVE MATERIAL	4	4	
924	ACC. CAUSED BY HOT, CAUSTIC OR CORROSIVE MATERIAL AND STEAM	7	4	3
925	ACCIDENT CAUSED BY ELECTRIC CURRENT	13	13	
927	OVEREXERTION AND STRENUOUS MOVEMENTS	1	1	
928	OTHER AND UNSPECIFIED ENVIRONMENTAL AND ACCIDENTAL CAUSES	6	4	2
LATE EFFECTS OF ACCIDENTAL INJURY (929)		14	10	4
929	LATE EFFECTS OF ACCIDENTAL INJURY	14	10	4
DRUGS, MEDS. AND BIO. SUBSTANCES CAUSING ADVERSE EFF. IN THERAPY (930-949)		4	2	2
932	HORMONES AND SYNTHETIC SUBSTITUTES	1		1
947	OTHER AND UNSPECIFIED DRUGS AND MEDICAMENTS	2	1	1
948	BACTERIAL VACCINES	1	1	
SUICIDE AND SELF-INFLICTED INJURY (950-959)		652	506	146
950	SUICIDE & SELF-INFLICTED POISONING BY SOLID OR LIQUID SUBSTANCES	81	28	53
952	SUICIDE & SELF-INFLICTED POISONING BY OTHER GASES AND VAPORS	105	69	36
953	SUICIDE/SELF-INFLICTED INJURY BY HANGING, STRANGULATION & SUFFOC	100	83	17
954	SUICIDE & SELF-INFLICTED INJURY BY SUBMERSION (DROWNING)	5	2	3
955	SUICIDE & SELF-INFLICTED INJURY BY FIREARMS AND EXPLOSIVES	340	308	32
956	SUICIDE & SELF-INFLICTED INJURY BY CUTTING, PIERCING INSTRUMENTS	5	4	1
957	SUICIDE & SELF-INFLICTED INJURY BY JUMPING FROM HIGH PLACE	8	6	2
958	SUICIDE & SELF-INFLICTED INJURY BY OTHER AND UNSPECIFIED MEANS	7	5	2
959	LATE EFFECTS OF SELF-INFLICTED INJURY	1	1	
HOMICIDE AND INJURY PURPOSELY INFLICTED BY OTHER PERSONS (960-969)		166	115	51
962	ASSAULT BY POISONING	1		1
963	ASSAULT BY HANGING AND STRANGULATION	8	1	7
964	ASSAULT BY SUBMERSION	2	1	1
965	ASSAULT BY FIREARMS & EXPLOSIVES	89	67	22
966	ASSAULT BY CUTTING & PIERCING INSTRUMENT	38	28	10
967	CHILD BATTERING & OTHER MALTREATMENT	3	1	2
968	ASSAULT BY OTHER & UNSPECIFIED MEANS	24	16	8
969	LATE EFFECTS OF INJURY PURPOSELY INFLICTED BY OTHER PERSON	1	1	
LEGAL INTERVENTION (970-978)		1	1	
970	INJURY DUE TO LEGAL INTERVENTION BY FIREARMS	1	1	
INJURY UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED (980-989)		47	31	16
980	POISONING BY SOLID OR LIQUID SUBSTANCES	15	7	8
982	POISONING BY OTHER GASES	7	6	1
983	HANGING, STRANGULATION OR SUFFOCATION	3	3	
984	SUBMERSION (DROWNING)	6	4	2
985	INJURY BY FIREARMS AND EXPLOSIVES	10	7	3
987	FALLING FROM HIGH PLACE	2	1	1
988	INJURY BY OTHER AND UNSPECIFIED MEANS	4	3	1

TABLE 2.5

DEATHS BY CAUSE GROUP,
BY AGE AND SEX
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH		TOTAL	ALL AGES MALE	ALL AGES FEMALE	UNDER 1 MALE	UNDER 1 FEMALE	< 28 DAYS MALE	< 28 DAYS FEMALE	< 7 DAYS MALE	< 7 DAYS FEMALE	< 1 DAY MALE	< 1 DAY FEMALE
TOTAL		42978	22161	20817	344	248	208	148	185	117	137	82
AGE/SEX SPECIFIC DEATH RATE **		885	930	842	956	729						
TUBERCULOSIS	010-018	17	9	8								
SEPTICEMIA	038	328	155	173	1	1						
HUMAN IMMUNODEFICIENCY VIRUS	042-044	58	55	3								
OTHER INFECTIONS AND PARASITIC	***	143	71	72	5	3	2		1		1	
MALIGNANT NEOPLASMS	140-208	9796	5238	4558	1	2						
LIP, ORAL CAVITY, PHARYNX	140-149	150	99	51								
DIGESTIVE ORG. AND PERITONEUM	150-159	2471	1335	1136								
RESPIRATORY AND INTRATHORACIC	160-165	2375	1602	773								
BREAST	174-175	870	3	867								
GENITAL ORGANS	179-187	1184	683	501								
URINARY ORGANS	188-189	482	317	165								
OTHER AND UNSPEC SITES 170-173,	190-199	1290	686	604	1	1						
OTHER LYMPH. AND HEMATOP.	200-203	578	296	282								
LEUKEMIA	204-208	396	217	179		1						
BENIGN AND UNCERTAIN NEOPLASMS	210-239	112	50	62		1		1		1		1
DIABETES MELLITUS	250	786	310	476								
NUTRITIONAL DEFICIENCIES	260-269	78	25	53								
ANEMIAS	280-285	63	29	34	1	1						
MENINGITIS	320-322	18	9	9		1						
CIRCULATORY DISEASE	391-448	20058	9910	10148	4	5	2	2	1	2		1
HEART	391-398,402,404-429	15553	7963	7590	1	4	1	1	1	1		
RHEUMATIC FEVER	391-398	117	36	81								
HYPERTENSIVE HEART DISEASE	402	269	111	158								
HYP. HEART AND RENAL DISEASE	404	30	15	15								
ISCHEMIC HEART DISEASE	410-414	11493	6075	5418								
ACUTE (INCL/MYO. INFARC)	410-411	5920	3316	2604								
CHRONIC (INCL. OLD M.I.)	412-414	5573	2759	2814								
OTHER ENDOCARDIAL DISEASES	424	290	120	170								
OTHER HEART DISEASE	415-423,425-429	3354	1606	1748	1	4	1	1	1	1		
HYPERTENSION W/ OR W/O RENAL	401,403	163	61	102								
CEREBROVASCULAR DISEASES	430-438	3383	1403	1980	2	1		1		1		1
INTRACRANIAL HEMORRHAGE	431,432	425	193	232	1							
CEREBRAL OCCLUSION	434	404	161	243		1		1		1		1
OTHER CEREBROVASC.	430,433,435-438	2554	1049	1505	1							
ATHEROSCLEROSIS	440	423	168	255								
OTHER ARTERIAL DISEASE	441-448	536	315	221	1		1					
ACUTE BRONCHITIS AND BRONCHIOLITIS	466	15	3	12								
PNEUMONIA AND INFLUENZA	480-487	1797	868	929	9	4						
PNEUMONIA	480-486	1747	849	898	9	4						
CHRONIC OBSTRUCTIVE PULMONARY	490-496	1587	957	630								
CHRONIC & UNSPEC. BRONCHITIS	490-491	57	36	21								
EMPHYSEMA	492	293	186	107								
ASTHMA	493	79	27	52								
OTHER CHRONIC PULMONARY	494-496	1158	708	450								
ULCER OF STOMACH AND DUODENUM	531-533	134	69	65								
APPENDICITIS	540-543	10	5	5								
ABD. HERNIA & INTEST. OBSTR.	550-553,560	129	41	88	1							
CHRONIC LIVER DIS. AND CIRRHOSIS	571	394	249	145								
CHOLELITHIASIS AND GALLBLADDER	574-575	59	27	32								
NEPHRITIS AND NEPHROSIS	580-589	420	229	191	2	1	1		1			
INFECTIONS OF THE KIDNEY	590	33	9	24								
HYPERPLASIA OF THE PROSTATE	600	18	18									
COMPLICATIONS OF PREGNANCY	630-676	6		6								
OTHER COMPLICATIONS	640-676	6		6								
CONGENITAL ANOMALIES	740-759	244	149	95	86	46	69	36	60	24	35	15
CONDITIONS OF PERINATAL PERIOD	760-779	236	135	101	133	98	127	96	118	86	99	64
BIRTH TRAUMA	767-769	53	25	28	25	27	23	27	22	24	16	12
OTHER PERINATAL CONDS.	760-766,770-779	183	110	73	108	71	104	69	96	62	83	52
ILL DEFINED CONDITIONS	780-799	236	136	100	75	61	3	7	2		1	
ALL OTHER DISEASES		3670	1609	2061	12	14	4	5	2	4	1	1
ACCIDENTS AND ADVERSE EFFECTS	800-949	1667	1143	524	10	7		1				
MOTOR VEHICLE ACCIDENTS	810-825	824	572	252	3	2						
OTHER	800-807,826-949	843	571	272	7	5		1				
SUICIDE	950-959	652	506	146								
HOMICIDE AND LEGAL INTERVENT.	960-978	167	116	51	4	3						
ALL OTHER EXTERNAL CAUSES	980-999	47	31	16								

* DEATH UNDER AGE 1: EACH SUBSET (28 DAYS, 7 DAYS, 1 DAY) IS A SUBSET OF EACH PRECEDING CATEGORY.
** PER 100,000 POPULATION
*** INCLUDES ICD-9 CODES 001-009, 020-037, 039-041, 045-139

TABLE 2.5

DEATHS BY CAUSE GROUP,
BY AGE AND SEX
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH		1-4		5-9		10-14		15-19		20-24	
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
TOTAL		75	57	56	35	47	30	220	77	291	86
AGE/SEX SPECIFIC DEATH RATE **		50.9	40.9	29.9	19.8	26.9	18.2	120	43.5	153	45.0
TUBERCULOSIS	010-018										
SEPTICEMIA	038	1	1	1	3			1			1
HUMAN IMMUNODEFICIENCY VIRUS	042-044	1									
OTHER INFECTIONS AND PARASITIC	***						1		1	1	1
MALIGNANT NEOPLASMS	140-208	7	10	9	6	2	4	16	11	10	8
LIP, ORAL CAVITY, PHARYNX	140-149			1							
DIGESTIVE ORG. AND PERITONEUM	150-159		1								1
RESPIRATORY AND INTRATHORACIC	160-165										
BREAST	174-175										
GENITAL ORGANS	179-187							1		1	1
URINARY ORGANS	188-189		1								
OTHER AND UNSPEC SITES 170-173,190-199		3	7	6	5	1	3	9	9	6	3
OTHER LYMPH. AND HEMATOP.	200-203	1						1		2	1
LEUKEMIA	204-208	3	1	2	1	1	1	5	2	1	2
BENIGN AND UNCERTAIN NEOPLASMS	210-239	2		1	1						
DIABETES MELLITUS	250							1	1	1	
NUTRITIONAL DEFICIENCIES	260-269	1									
ANEMIAS	280-285									2	
MENINGITIS	320-322	2	2	2		1					
CIRCULATORY DISEASE	391-448	1	3	1	3	2	3	4	5	6	8
HEART 391-398,402,404-429		1	3	1	3	2	3	4	3	4	6
RHEUMATIC FEVER	391-398								1		1
HYPERTENSIVE HEART DISEASE	402										
HYP. HEART AND RENAL DISEASE	404										
ISCHEMIC HEART DISEASE	410-414										1
ACUTE (INCL/MYO. INFARC)	410-411										1
CHRONIC (INCL. OLD M.I.)	412-414										
OTHER ENDOCARDIAL DISEASES	424										
OTHER HEART DISEASE 415-423,425-429		1	3	1	3	2	3	4	2	4	4
HYPERTENSION W/ OR W/O RENAL	401,403								1		2
CEREBROVASCULAR DISEASES	430-438										
INTRACRANIAL HEMORRHAGE	431,432								1		2
CEREBRAL OCCLUSION	434								1		
OTHER CEREBROVASC. 430,433,435-438											
ATHEROSCLEROSIS	440									2	
OTHER ARTERIAL DISEASE	441-448										
ACUTE BRONCHITIS AND BRONCHIOLITIS	466										
PNEUMONIA AND INFLUENZA	480-487		3	3					2		
PNEUMONIA	480-486		3	3					2		
CHRONIC OBSTRUCTIVE PULMONARY	490-496			1						1	
CHRONIC & UNSPEC. BRONCHITIS	490-491			1							
EMPHYSEMA	492										
ASTHMA	493									1	
OTHER CHRONIC PULMONARY	494-496										
ULCER OF STOMACH AND DUODENUM	531-533										
APPENDICITIS	540-543										
ABD. HERNIA & INTEST. OBSTR. 550-553,560		2				1					1
CHRONIC LIVER DIS. AND CIRRHOSIS	571				1						
CHOLELITHIASIS AND GALLBLADDER	574-575										
NEPHRITIS AND NEPHROSIS	580-589										
INFECTIONS OF THE KIDNEY	590										
HYPERPLASIA OF THE PROSTATE	600										
COMPLICATIONS OF PREGNANCY	630-676										2
OTHER COMPLICATIONS	640-676										2
CONGENITAL ANOMALIES	740-759	14	7	6	3	5	3	3	1	3	2
CONDITIONS OF PERINATAL PERIOD	760-779	2	2								
BIRTH TRAUMA	767-769		1								
OTHER PERINATAL CONDS. 760-766,770-779		2	1								
ILL DEFINED CONDITIONS	780-799	1	2					3	1	9	3
ALL OTHER DISEASES		5	6	2	2	4	2	11	4	13	6
ACCIDENTS AND ADVERSE EFFECTS	800-949	34	18	30	14	23	14	117	32	153	38
MOTOR VEHICLE ACCIDENTS	810-825	6	7	10	8	12	12	88	31	123	32
OTHER 800-807,826-949		28	11	20	6	11	2	29	1	30	6
SUICIDE	950-959					5	2	53	17	64	9
HOMICIDE AND LEGAL INTERVENT.	960-978	2	2		2	2	1	6	2	25	7
ALL OTHER EXTERNAL CAUSES	980-999		1			2		5		3	

** PER 100,000 POPULATION
*** INCLUDES ICD-9 CODES 001-009, 020-037, 039-041, 045-139

TABLE 2.5

DEATHS BY CAUSE GROUP,
BY AGE AND SEX
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH		25-29		30-34		35-39		40-44		45-49	
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
TOTAL		259	109	265	120	302	160	353	210	441	263
AGE/SEX SPECIFIC DEATH RATE **		117	50.3	124	57.9	162	86.3	235	139	363	212
TUBERCULOSIS	010-018									1	
SEPTICEMIA	038			1	2	1		1	3		2
HUMAN IMMUNODEFICIENCY VIRUS	042-044	5		15	2	14		5	1	7	
OTHER INFECTIONS AND PARASITIC	***		2	3	3	1	2	3	1	2	1
MALIGNANT NEOPLASMS	140-208	16	10	24	30	51	61	82	92	122	126
LIP, ORAL CAVITY, PHARYNX	140-149					1	1	1		4	3
DIGESTIVE ORG. AND PERITONEUM	150-159	1		6	4	10	6	17	7	34	19
RESPIRATORY AND INTRATHORACIC	160-165	1	1	3	3	9	3	16	10	35	22
BREAST	174-175		2		11		22		44		36
GENITAL ORGANS	179-187		2		1	2	6	1	5	2	24
URINARY ORGANS	188-189	2		1	1	2		5	4	6	
OTHER AND UNSPEC SITES 170-173,190-199		9	3	11	6	21	12	29	14	26	17
OTHER LYMPH, AND HEMATOP.	200-203	1		1	3	3	7	8	5	10	3
LEUKEMIA	204-208	2	2	2	1	3	4	5	3	5	2
BENIGN AND UNCERTAIN NEOPLASMS	210-239	1		1			3	1		1	2
DIABETES MELLITUS	250	4	1	3	5	7	2	6	4	9	4
NUTRITIONAL DEFICIENCIES	260-269										1
ANEMIAS	280-285					1				1	1
MENINGITIS	320-322			1							
CIRCULATORY DISEASE	391-448	13	4	19	13	56	24	105	31	161	50
HEART 391-398,402,404-429		9	2	17	12	47	19	86	17	141	35
RHEUMATIC FEVER	391-398		2			1	1	1			2
HYPERTENSIVE HEART DISEASE	402	1		2				2		3	
HYP. HEART AND RENAL DISEASE	404										
ISCHEMIC HEART DISEASE	410-414	2		5	6	30	8	60	11	111	20
ACUTE (INCL/MYO. INFARC)	410-411	1		3	5	19	3	31	9	73	14
CHRONIC (INCL. OLD M.I.)	412-414	1		2	1	11	5	29	2	38	6
OTHER ENDOCARDIAL DISEASES	424			1				4	1		2
OTHER HEART DISEASE 415-423,425-429		6		9	6	16	10	19	5	27	11
HYPERTENSION W/ OR W/O RENAL	401,403							1			
CEREBROVASCULAR DISEASES	430-438	3	2	1	1	8	5	15	10	17	14
INTRACRANIAL HEMORRHAGE	431,432	1	1	1		2	1	1	2	5	5
CEREBRAL OCCLUSION	434					1	1	1	1	1	
OTHER CEREBROVASC. 430,433,435-438		2	1		1	5	3	13	7	11	9
ATHEROSCLEROSIS	440								1		
OTHER ARTERIAL DISEASE	441-448	1		1		1		3	3	3	1
ACUTE BRONCHITIS AND BRONCHIOLITIS	466										2
PNEUMONIA AND INFLUENZA	480-487	4	2	2	1	6	1	5	3	7	1
PNEUMONIA	480-486	4	2	2	1	6	1	5	3	6	1
CHRONIC OBSTRUCTIVE PULMONARY	490-496	1	2			2		4		4	5
CHRONIC & UNSPEC. BRONCHITIS	490-491										
EMPHYSEMA	492							1		1	1
ASTHMA	493	1	2			2		1			1
OTHER CHRONIC PULMONARY	494-496							2		3	3
ULCER OF STOMACH AND DUODENUM	531-533			1		1	1	2			
APPENDICITIS	540-543				1						
ABD. HERNIA & INTEST. OBSTR. 550-553,560			1		1	1				2	
CHRONIC LIVER DIS. AND CIRRHOSIS	571	2	1	2	4	10		13	10	18	6
CHOLELITHIASIS AND GALLBLADDER	574-575										
NEPHRITIS AND NEPHROSIS	580-589			2			2	1	2	1	2
INFECTIONS OF THE KIDNEY	590										
HYPERPLASIA OF THE PROSTATE	600										
COMPLICATIONS OF PREGNANCY	630-676		2		2						
OTHER COMPLICATIONS	640-676		2		2						
CONGENITAL ANOMALIES	740-759	2	2	1	2	2	2	3	3	4	1
CONDITIONS OF PERINATAL PERIOD	760-779		1								
BIRTH TRAUMA	767-769										
OTHER PERINATAL CONDS. 760-766,770-779			1								
ILL DEFINED CONDITIONS	780-799	4	3	9	4	4	4	1	1	1	
ALL OTHER DISEASES		9	9	14	8	19	16	29	19	29	30
ACCIDENTS AND ADVERSE EFFECTS	800-949	119	42	91	22	69	18	56	19	43	17
MOTOR VEHICLE ACCIDENTS	810-825	80	34	56	14	40	14	25	8	16	12
OTHER 800-807,826-949		39	8	35	8	29	4	31	11	27	5
SUICIDE	950-959	61	15	58	11	39	20	27	17	24	9
HOMICIDE AND LEGAL INTERVENT.	960-978	16	9	16	3	15	3	5	3	2	3
ALL OTHER EXTERNAL CAUSES	980-999	2	3	2	6	3	1	4	1	2	

** PER 100,000 POPULATION
*** INCLUDES ICD-9 CODES 001-009, 020-037, 039-041, 045-139

TABLE 2.5

DEATHS BY CAUSE GROUP,
BY AGE AND SEX
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH		50-54		55-59		60-64		65-69		70-74	
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
TOTAL		645	415	1011	713	1768	992	2398	1507	3048	2101
AGE/SEX SPECIFIC DEATH RATE **		610	335	990	681	1788	895	2707	1456	4198	2238
TUBERCULOSIS	010-018					2	2		2	2	1
SEPTICEMIA	038	2		3	4	7	9	14	6	20	11
HUMAN IMMUNODEFICIENCY VIRUS	042-044	3		2		2		1			
OTHER INFECTIONS AND PARASITIC	***	2	4	5	4	7	4	9	5	9	6
MALIGNANT NEOPLASMS	140-208	220	205	361	363	622	425	730	566	910	687
LIP, ORAL CAVITY, PHARYNX	140-149	10	3	14	3	14	3	10	8	13	5
DIGESTIVE ORG. AND PERITONEUM	150-159	47	25	84	49	171	88	189	111	219	171
RESPIRATORY AND INTRATHORACIC	160-165	77	48	140	99	257	95	259	145	327	138
BREAST	174-175		58		85	1	104		93	2	120
GENITAL ORGANS	179-187	7	23	21	35	41	51	73	72	108	88
URINARY ORGANS	188-189	19	5	22	10	33	7	33	18	51	25
OTHER AND UNSPEC SITES 170-173,	190-199	41	33	52	52	65	47	92	61	103	68
OTHER LYMPH. AND HEMATOP.	200-203	12	6	17	21	24	18	44	41	54	41
LEUKEMIA	204-208	7	4	11	9	16	12	30	17	33	31
BENIGN AND UNCERTAIN NEOPLASMS	210-239	2	2	1	3	4	4	4	2	6	6
DIABETES MELLITUS	250	8	8	14	22	37	42	41	46	40	47
NUTRITIONAL DEFICIENCIES	260-269			1				1	1	3	3
ANEMIAS	280-285				3	3			3	5	1
MENINGITIS	320-322		2	1		2			1		1
CIRCULATORY DISEASE	391-448	249	102	399	199	763	308	1160	600	1411	888
HEART	391-398,402,404-429	222	78	353	161	635	234	991	467	1156	680
RHEUMATIC FEVER	391-398	4	1	2	6	2	10	7	10	4	11
HYPERTENSIVE HEART DISEASE	402	1	2	4	7	9	4	16	10	17	17
HYP. HEART AND RENAL DISEASE	404	1		2	1	2	2	2	2	1	1
ISCHEMIC HEART DISEASE	410-414	180	43	273	99	510	165	773	350	890	490
ACUTE (INCL/MYO. INFARC)	410-411	117	29	174	64	307	112	463	222	520	286
CHRONIC (INCL. OLD M.I.)	412-414	63	14	99	35	203	53	310	128	370	204
OTHER ENDOCARDIAL DISEASES	424	1	4	2	4	5		13	9	14	13
OTHER HEART DISEASE	415-423,425-429	35	28	70	44	107	53	180	86	230	148
HYPERTENSION W/ OR W/O RENAL	401,403	1		1	1	5	2	8	7	2	9
CEREBROVASCULAR DISEASES	430-438	21	21	37	36	92	51	109	107	186	167
INTRACRANIAL HEMORRHAGE	431,432	6	9	11	6	22	13	26	28	41	27
CEREBRAL OCCLUSION	434	3	2	3	2	16	7	14	12	27	15
OTHER CEREBROVASC.	430,433,435-438	12	10	23	28	54	31	69	67	118	125
ATHEROSCLEROSIS	440			1		6	8	12	4	15	6
OTHER ARTERIAL DISEASE	441-448	5	3	7	1	25	13	40	15	52	26
ACUTE BRONCHITIS AND BRONCHIOLITIS	466						1				
PNEUMONIA AND INFLUENZA	480-487	10	5	16	7	27	15	46	22	105	49
PNEUMONIA	480-486	10	5	16	5	27	15	45	21	104	48
CHRONIC OBSTRUCTIVE PULMONARY	490-496	8	13	29	19	71	43	120	61	179	128
CHRONIC & UNSPEC. BRONCHITIS	490-491			2	1	1	4	2	1	9	4
EMPHYSEMA	492	3	4	6	6	17	8	23	13	40	31
ASTHMA	493		1	3	4	3	5	1	4	6	13
OTHER CHRONIC PULMONARY	494-496	5	8	18	8	50	26	94	43	124	80
ULCER OF STOMACH AND DUODENUM	531-533	2		2	3	3	2	2	1	15	8
APPENDICITIS	540-543					2	1	1		1	
ABD. HERNIA & INTEST. OBSTR.	550-553,560	1	3			2	1	1	4	3	3
CHRONIC LIVER DIS. AND CIRRHOSIS	571	20	13	37	20	42	15	38	21	36	18
CHOLELITHIASIS AND GALLBLADDER	574-575			2		1	1	3	3	1	3
NEPHRITIS AND NEPHROSIS	580-589	3	1	5	3	11	9	16	11	26	23
INFECTIONS OF THE KIDNEY	590						1	2	1		2
HYPERPLASIA OF THE PROSTATE	600							3		1	
COMPLICATIONS OF PREGNANCY	630-676										
OTHER COMPLICATIONS	640-676										
CONGENITAL ANOMALIES	740-759	4	2	4		2	4	1	1	2	8
CONDITIONS OF PERINATAL PERIOD	760-779										
BIRTH TRAUMA	767-769										
OTHER PERINATAL CONDS.	760-766,770-779										
ILL DEFINED CONDITIONS	780-799	2	1		1	6	1	5	1	5	1
ALL OTHER DISEASES		36	28	57	38	94	76	124	121	192	173
ACCIDENTS AND ADVERSE EFFECTS	800-949	43	15	36	12	32	19	53	18	45	26
MOTOR VEHICLE ACCIDENTS	810-825	21	11	11	7	15	9	22	10	16	12
OTHER	800-807,826-949	22	4	25	5	17	10	31	8	29	14
SUICIDE	950-959	28	11	29	10	21	8	19	7	27	1
HOMICIDE AND LEGAL INTERVENT.	960-978	2		5	1	3	1	4	2	2	3
ALL OTHER EXTERNAL CAUSES	980-999			2	1	2			1	2	2

** PER 100,000 POPULATION
*** INCLUDES ICD-9 CODES 001-009, 020-037, 039-041, 045-139

TABLE 2.5

DEATHS BY CAUSE GROUP,
BY AGE AND SEX
WISCONSIN, 1988

(RESIDENT DATA)

CAUSE OF DEATH		75-79		80-84		85-89		90-94		95+	
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
TOTAL		3387	2823	3250	3419	2343	3473	1219	2652	438	1326
AGE/SEX SPECIFIC DEATH RATE **		6651	3695	11017	6439	16385	10719	23902	18545	33462	30136
TUBERCULOSIS	010-018	2	2			2	1				
SEPTICEMIA	038	32	23	26	31	28	32	12	27	4	17
HUMAN IMMUNODEFICIENCY VIRUS	042-044										
OTHER INFECTIONS AND PARASITIC	***	9	5	6	8	8	8		9	1	2
MALIGNANT NEOPLASMS	140-208	843	651	657	605	361	432	160	203	34	61
LIP, ORAL CAVITY, PHARYNX	140-149	12	10	8	5	8	4	3	3		3
DIGESTIVE ORG. AND PERITONEUM	150-159	219	202	175	196	99	155	55	86	9	15
RESPIRATORY AND INTRATHORACIC	160-165	250	101	135	71	65	23	24	13	4	1
BREAST	174-175		102		91		53		30		16
GENITAL ORGANS	179-187	142	62	152	60	84	47	38	19	10	5
URINARY ORGANS	188-189	47	27	47	22	31	31	13	9	5	5
OTHER AND UNSPEC SITES 170-173,	190-199	87	80	71	91	42	60	10	24	1	8
OTHER LYMPH. AND HEMATOP.	200-203	46	41	47	44	15	37	6	9	4	5
LEUKEMIA	204-208	40	26	22	25	17	22	11	10	1	3
BENIGN AND UNCERTAIN NEOPLASMS	210-239	9	9	11	10	5	9	1	6		4
DIABETES MELLITUS	250	61	89	42	86	23	59	10	42	3	18
NUTRITIONAL DEFICIENCIES	260-269	2	1	4	9	6	14	5	15	2	9
ANEMIAS	280-285	4	3	3	3	4	10	2	7	3	2
MENINGITIS -	320-322		1		1						
CIRCULATORY DISEASE	391-448	1680	1414	1680	1902	1286	2065	658	1676	252	845
HEART 391-398,402,	404-429	1326	1094	1284	1395	985	1507	504	1229	194	638
RHEUMATIC FEVER	391-398	7	14	4	10	4	6		4		2
HYPERTENSIVE HEART DISEASE	402	16	22	17	27	16	32	5	31	2	6
HYP. HEART AND RENAL DISEASE	404		2	2	1	2	3	1	1	2	2
ISCHEMIC HEART DISEASE	410-414	1062	841	977	1011	722	1060	352	850	128	463
ACUTE (INCL/MYO. INFARC)	410-411	612	480	494	508	326	457	134	284	42	130
CHRONIC (INCL. OLD M.I.)	412-414	450	361	483	503	396	603	218	566	86	333
OTHER ENDOCARDIAL DISEASES	424	21	29	28	37	19	41	9	23	3	7
OTHER HEART DISEASE 415-423,	425-429	220	186	256	309	222	365	137	320	59	158
HYPERTENSION W/ OR W/O RENAL	401,403	8	16	15	23	11	22	5	14	4	8
CEREBROVASCULAR DISEASES	430-438	259	256	303	402	203	429	109	330	38	145
INTRACRANIAL HEMORRHAGE	431,432	31	47	29	40	12	30	4	20		3
CEREBRAL OCCLUSION	434	26	29	34	55	18	53	15	41	2	24
OTHER CEREBROVASC. 430,433,	435-438	202	180	240	307	173	346	90	269	36	118
ATHEROSCLEROSIS	440	29	18	23	37	44	62	24	75	14	43
OTHER ARTERIAL DISEASE	441-448	58	30	55	45	43	45	16	28	2	11
ACUTE BRONCHITIS AND BRONCHIOLITIS	466		2	1	2		2	2	3		
PNEUMONIA AND INFLUENZA	480-487	118	88	161	158	176	211	121	213	52	144
PNEUMONIA	480-486	116	86	156	148	171	205	118	206	51	142
CHRONIC OBSTRUCTIVE PULMONARY	490-496	199	139	180	91	107	81	38	40	13	8
CHRONIC & UNSPEC. BRONCHITIS	490-491	9	2	6		5	3		6	1	
EMPHYSEMA	492	43	18	32	14	16	7	2	4	2	1
ASTHMA	493	4	6	3	9	1	5	1			2
OTHER CHRONIC PULMONARY	494-496	143	113	139	68	85	66	35	30	10	5
ULCER OF STOMACH AND DUODENUM	531-533	9	10	11	18	12	9	6	6	3	7
APPENDICITIS	540-543			1			3				
ABD. HERNIA & INTEST. OBSTR.	550-553,560	7	14	6	18	8	17	3	14	3	11
CHRONIC LIVER DIS. AND CIRRHOSIS	571	18	24	8	8	4	3	1	1		
CHOLELITHIASIS AND GALLBLADDER	574-575	6	3	4	4	5	6	4	10	1	2
NEPHRITIS AND NEPHROSIS	580-589	24	32	62	34	38	42	28	16	10	13
INFECTIONS OF THE KIDNEY	590	3	4	2	5	1	7		3	1	1
HYPERPLASIA OF THE PROSTATE	600	5		1		4		1		3	
COMPLICATIONS OF PREGNANCY	630-676										
OTHER COMPLICATIONS	640-676										
CONGENITAL ANOMALIES	740-759	2	4		3	3	1	2			
CONDITIONS OF PERINATAL PERIOD	760-779										
BIRTH TRAUMA	767-769										
OTHER PERINATAL CONDS.	760-766,770-779										
ILL DEFINED CONDITIONS	780-799	1	7	3	2	3	2	3	4	1	1
ALL OTHER DISEASES		263	259	310	373	214	392	128	321	44	164
ACCIDENTS AND ADVERSE EFFECTS	800-949	60	30	56	44	35	66	31	36	7	17
MOTOR VEHICLE ACCIDENTS	810-825	14	9	10	9	3	10	1	1		
OTHER 800-807,	826-949	46	21	46	35	32	56	30	35	7	17
SUICIDE	950-959	25	5	14	3	8	1	3		1	
HOMICIDE AND LEGAL INTERVENT.	960-978	5	4	1	1						
ALL OTHER EXTERNAL CAUSES	980-999					2					

CASES WITH UNKNOWN SEX= 1

** PER 100,000 POPULATION
*** INCLUDES ICD-9 CODES 001-009, 020-037, 039-041, 045-139

Figure 6

DEATH RATES FOR MALIGNANT NEOPLASMS BY AGE GROUPS AND SEX WISCONSIN, 1988

(Resident Data)

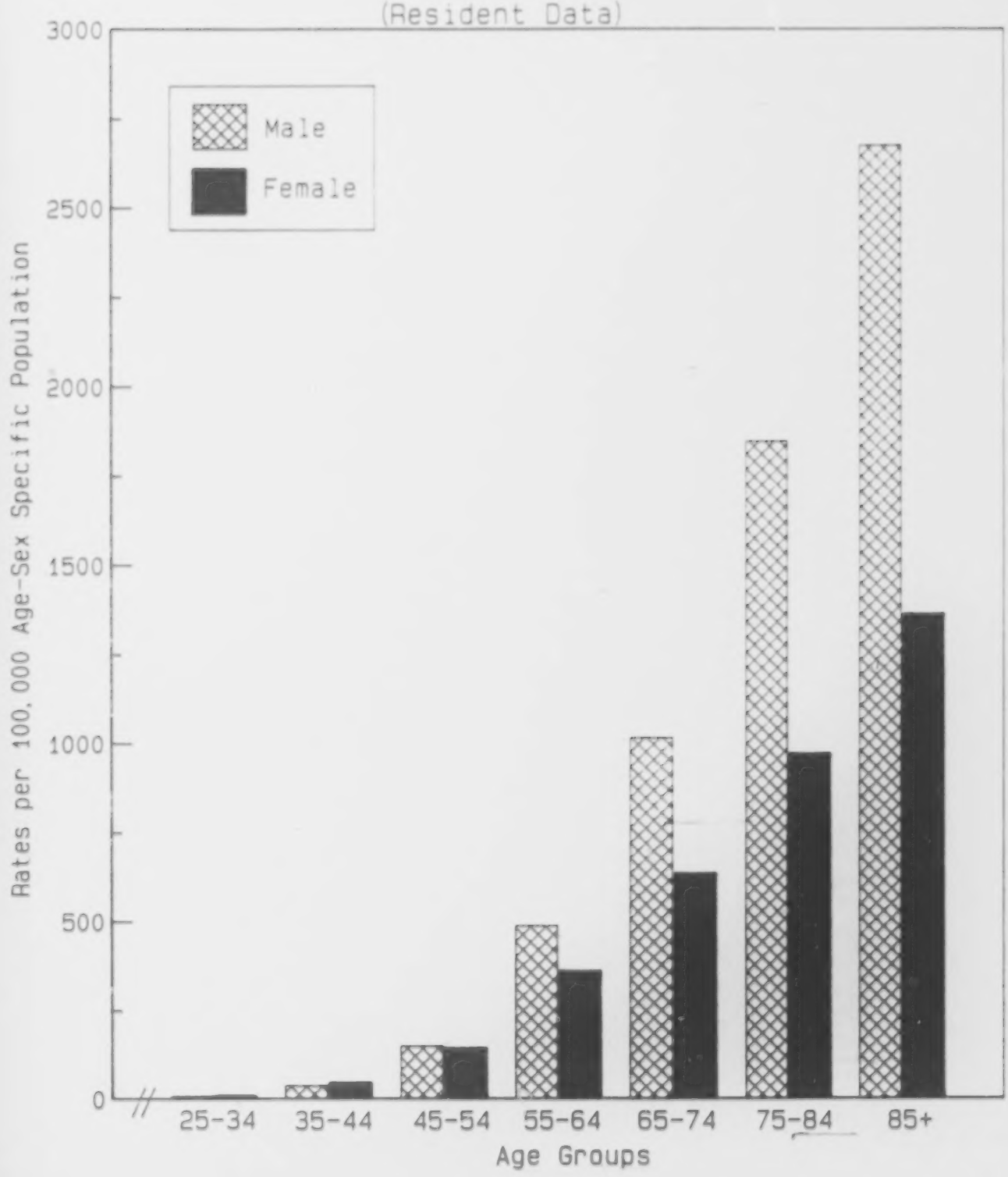
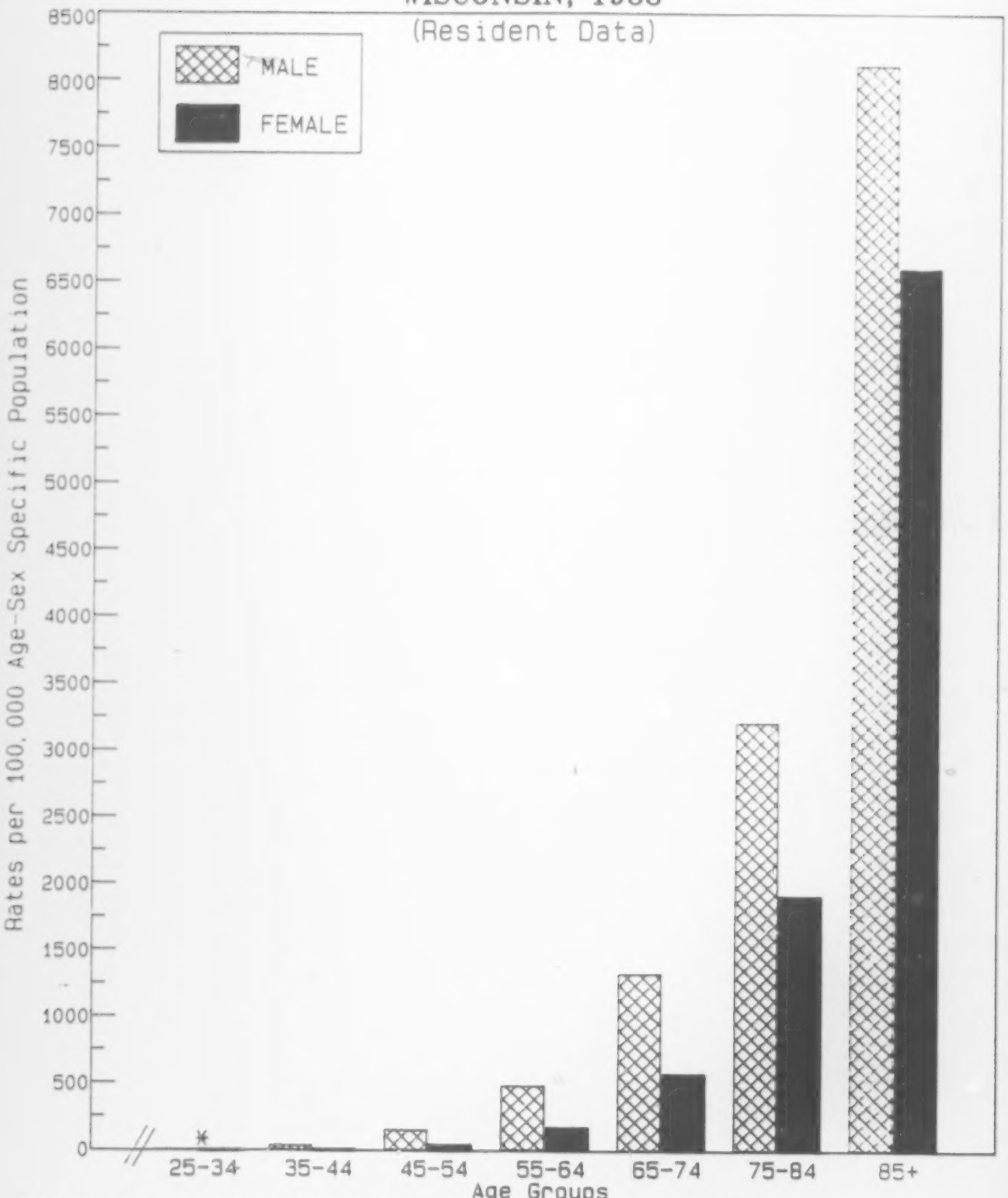


Figure 7

DEATH RATES FOR HEART DISEASE BY AGE GROUPS AND SEX WISCONSIN, 1988

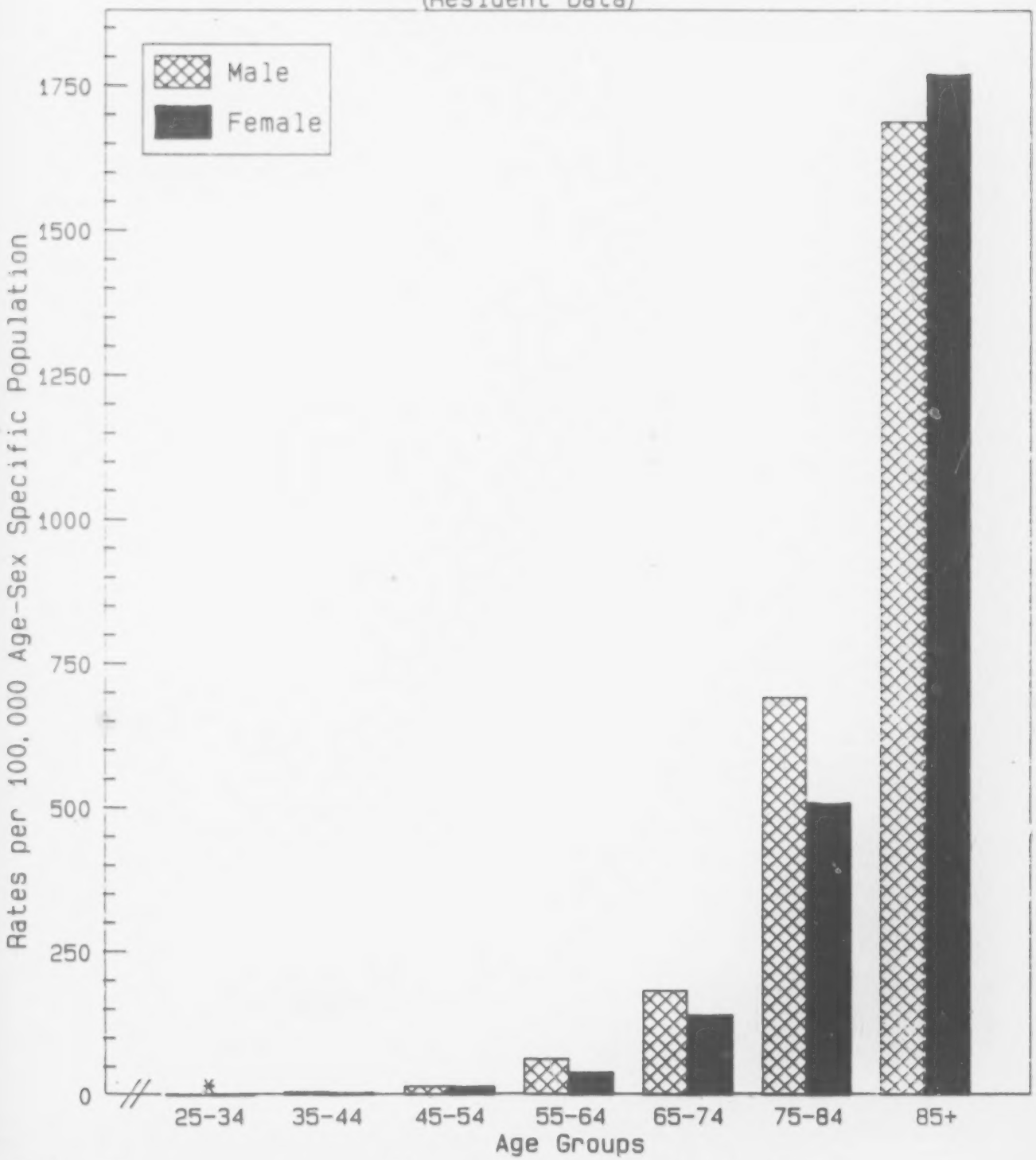


*Rates do not appear because they are to small to be recorded.

Figure 8

DEATH RATES FOR CEREBROVASCULAR DISEASES BY AGE GROUPS AND SEX WISCONSIN, 1988

(Resident Data)



*Rates do not appear because they are to small to be recorded.

TABLE 2.6

UNINTENTIONAL FATAL INJURY
BY EXTERNAL CAUSE BY AGE AND SEX
WISCONSIN, 1988

(OCCURRENCE DATA)

EXTERNAL CAUSE OF DEATH.....		TOTAL M	TOTAL F	UNDER 1 M	UNDER 1 F	1-4 M	1-4 F	5-9 M	5-9 F	10-14 M	10-14 F	15-19 M	15-19 F	20-24 M	20-24 F
TOTAL		1167	532	10	7	31	18	32	14	26	14	119	33	162	37
I. RAILWAY	E800-807	5	1											1	
HIT BY ROLLING STOCK	E805	5	1											1	
II. MOTOR VEHICLE TRAFFIC	E810-819	558	252	3	1	4	5	8	8	13	13	85	32	125	30
COLLISION WITH TRAIN	E810	4	5				2								
OTHER M.V. COLLISION	E812	236	131	3	1	1	1		2	4	1	30	13	37	14
COLLISION WITH OTHER VEHICLE	E813	12	5					2	2	3	2	1			1
COLLISION WITH PEDESTRIAN	E814	49	32			1	2	4	4	4	9	2	1	4	1
OTHER HIGHWAY COLLISION	E815	80	23			1		2				16	7	26	3
NONCOLL. DUE TO LOSS OF CONTROL	E816	174	49			1				2		35	10	58	11
OTHER NONCOLLISION	E818	1	4								1		1		
UNSPECIFIED	E819	2	3									1			
III. MOTOR VEHICLE NONTRAFFIC	E820-825	28	8			1	2	2				3		4	1
NONTRAFFIC SNOW VEHICLE	E820	11	1					1				1		3	1
NONTRAFFIC OTHER OFF-ROAD VEH.	E821	4						1				1			
COLLISION WITH MOVING OBJECT	E822	5	4			1	2							1	
COLLISION WITH STATIONARY OBJECT	E823	4	1												
BOARDING / ALIGHTING	E824	1												1	
OTHER AND UNSPECIFIED	E825	3	2									1			
IV. OTHER ROAD VEHICLE	E826-829	4								1					
PEDAL CYCLE	E826	4								1					
V. WATER TRANSPORT	E830-838	26								1		4		3	
WATERCRAFT SUBMERSION	E830	3													
WATERCRAFT / OTHER INJURY	E831	3										1			
OTHER SUBMERSION IN WATER TRANS.	E832	16								1				2	
OTHER WATER TRANSPORT	E838	4										3		1	
VI. AIR AND SPACE TRANSPORT	E840-845	8	2												
POWERED, OTHER AND UNSPECIFIED	E841	6	2												
OTHER AIR TRANSPORT	E844	2													
VIII. POISONING BY DRUGS, MEDICINE	E850-858	40	22											2	
ANALGES, ANTIPYRET., ANTIRHEUM.	E850	5	6												
OTHER SEDATIVES AND HYPNOTICS	E852	1													
TRANQUILIZERS	E853	1	1												
OTHER PSYCHOTROPIC AGENTS	E854		1												
OTHER NERVOUS SYSTEM DRUGS	E855	16	3											1	
OTHER DRUGS	E858	17	11											1	
IX. POISONING BY OTHER FORMS	E860-869	19	7				1								2
SOLVENTS, PETROLEUM PRODUCTS	E862		1				1								
CORROSIVES AND CAUSTICS	E864		1												1
OTHER UTILITY GAS AND C.O.	E868	19	5												1
X. MISADVENTURES OF MEDICAL CARE	E870-876		1												
CUT OR HEMORRHAGE	E870		1												

TABLE 2.6

UNINTENTIONAL FATAL INJURY
BY EXTERNAL CAUSE BY AGE AND SEX
WISCONSIN, 1988

(OCCURRENCE DATA)

EXTERNAL CAUSE OF DEATH		TOTAL M	TOTAL F	UNDER 1 M	UNDER 1 F	1-4 M	1-4 F	5-9 M	5-9 F	10-14 M	10-14 F	15-19 M	15-19 F	20-24 M	20-24 F
XI. COMPLICATION OF MED. PROCEDURES	E878-879	2	2												
ABNORMAL REACTION TO SURGERY	E878	2	1												
ABNORMAL REACTION TO OTHER PROC.	E879		1												
XII. FALLS	E880-888	175	136			4		1		2		1		4	
STAIRS OR STEPS	E880	31	18			3									
LADDERS OR SCAFFOLDING	E881	3												1	
BUILDING OR OTHER STRUCTURE	E882	5	1									1		2	
OTHER FALL, ONE LEVEL TO ANOTHER	E884	26	12			1		1		1					
SLIPPING, TRIPPING OR STUMBLING	E885	3	12												
COLLISION, PUSHING OR SHOVING	E886	1								1					
FRACTURE, CAUSE UNSPECIFIED	E887	3	2												
OTHER AND UNSPECIFIED FALL	E888	103	91											1	
XIII. FIRE	E890-899	51	24	1	1	10	4	4	5	1	1	2		2	2
PRIVATE DWELLING	E890	45	23	1	1	9	4	4	5	1	1	1		2	2
FIRE NOT IN BUILDING	E892	4				1						1			
IGNITION OF CLOTHING	E893	1	1												
CONT. FIRE NOT IN BUILDING	E897	1													
XIV. NATURAL AND ENVIRONMENTAL	E900-909	26	15		1					2		2	1		
EXCESSIVE HEAT	E900	6	5		1										
EXCESSIVE COLD	E901	13	9									1			
HUNGER, THIRST, EXPOSURE	E904	3													
LIGHTNING	E907	4	1							2		1	1		
XV. SUBMERSION, SUFFOCATION	E910-915	114	48	6	3	8	5	12	1	5		9		10	2
DROWNING AND SUBMERSION	E910	55	11	3		5	3	10		3		8		5	1
INHALATION OR INGESTION OF FOOD	E911	17	21		1	2	2								1
INHALATION/INGESTION OTHER OBJ.	E912	19	10					1							
MECHANICAL SUFFOCATION	E913	22	5	3	2	1		1	1	2		1		5	
FOREIGN BODY / OTHER ORIFICE	E915	1	1												
XVI. OTHER	E916-928	99	8		1	4	1	4		1		13		10	
STRUCK BY FALLING OBJECT	E916	10										1		2	
STRUCK BY OBJECTS OR PERSONS	E917	2													
CAUGHT IN OR BETWEEN OBJECTS	E918	3													
MACHINERY	E919	37	3			1		4		1		4		1	
EXPLOSION OF PRESSURE VESSEL	E921	1													
FIREARM MISSILE	E922	19										7		4	
EXPLOSIVE MATERIAL	E923	6				1									
HOT, CAUSTIC OR CORROSIVE OBJECT	E924	5	3			1	1								
ELECTRIC CURRENT	E925	13										1		3	
OVEREXERTION, STRENUOUS ACTIVITY	E927	1													
OTHER ENVIRONMENTAL CAUSES	E928	2	2		1	1									
XVII. LATE EFFECTS OF UNINTENT. INJURY	E929	10	4											1	
XVIII. ADVERSE REACTION TO DRUGS	E930-949	2	2					1							
HORMONES AND SUBSTITUTES	E932		1												
OTHER AND UNSPECIFIED DRUGS	E947	1	1												
BACTERIAL VACCINES	E948	1						1							

TABLE 2.6

UNINTENTIONAL FATAL INJURY
BY EXTERNAL CAUSE BY AGE AND SEX
WISCONSIN, 1988

(OCCURRENCE DATA)

EXTERNAL CAUSE OF DEATH.....		25-34 M	25-34 F	35-44 M	35-44 F	45-54 M	45-54 F	55-64 M	55-64 F	65-74 M	65-74 F	75-84 M	75-84 F	85+ M	85+ F
TOTAL		212	65	124	37	83	33	71	33	105	50	119	72	73	119
I. RAILWAY	E800-807	3	1							1					
HIT BY ROLLING STOCK	E805	3	1							1					
II. MOTOR VEHICLE TRAFFIC	E810-819	128	48	60	21	38	22	23	19	40	26	25	16	6	11
COLLISION WITH TRAIN	E810	2					1		2	2					
OTHER M.V. COLLISION	E812	57	23	31	14	17	17	12	10	27	20	12	11	5	4
COLLISION WITH OTHER VEHICLE	E813	3		1				1				1			
COLLISION WITH PEDESTRIAN	E814	9	4	3	2	3	1	3	2	8	2	7	2	1	2
OTHER HIGHWAY COLLISION	E815	16	5	11	1	3	2	3	1	1	1	1	2		1
NONCOLL. DUE TO LOSS OF CONTROL	E816	41	15	14	3	14	1	4	4	1	3	4	1		1
OTHER NONCOLLISION	E818		1		1	1									3
UNSPECIFIED	E819									1					
III. MOTOR VEHICLE NONTRAFFIC	E820-825	9	1	2	2	1		3		1		2	1		1
NONTRAFFIC SNOW VEHICLE	E820	4				1		1							
NONTRAFFIC OTHER OFF-ROAD VEH.	E821	1										1			
COLLISION WITH MOVING OBJECT	E822	2		1	1			1					1		
COLLISION WITH STATIONARY OBJECT	E823	1								1		1			1
BOARDING / ALIGHTING	E824							1							
OTHER AND UNSPECIFIED	E825	1	1	1	1										
IV. OTHER ROAD VEHICLE	E826-829	1								1		1			
PEDAL CYCLE	E826	1								1		1			
V. WATER TRANSPORT	E830-838	3		4		4		2		2		3			
WATERCRAFT SUBMERSION	E830							1				1			
WATERCRAFT / OTHER INJURY	E831	1		1		1									
OTHER SUBMERSION IN WATER TRANS.	E832	2		3		3		1		2		2			
OTHER WATER TRANSPORT	E838														
VI. AIR AND SPACE TRANSPORT	E840-845	2	1	1		3		1		1	1				
POWERED, OTHER AND UNSPECIFIED	E841	2	1	1		2				1	1				
OTHER AIR TRANSPORT	E844					1		1							
VIII. POISONING BY DRUGS, MEDICINE	E850-858	16	5	14	6	1	3	1	1	3	4	1	2	2	1
ANALGES, ANTIPYRET., ANTIRHEUM.	E850	2	3	3	2								1		
OTHER SEDATIVES AND HYPNOTICS	E852	1													
TRANQUILIZERS	E853	1					1								
OTHER PSYCHOTROPIC AGENTS	E854				1										
OTHER NERVOUS SYSTEM DRUGS	E855	10	2	5			1								
OTHER DRUGS	E858	2		6	3	1	1	1	1	3	4	1	1	2	1
IX. POISONING BY OTHER FORMS	E860-869	6	2	4		4		3	2			2			
SOLVENTS, PETROLEUM PRODUCTS	E862														
CORROSIVES AND CAUSTICS	E864														
OTHER UTILITY GAS AND C.O.	E868	6	2	4		4		3	2			2			
X. MISADVENTURES OF MEDICAL CARE	E870-876								1						
CUT OR HEMORRHAGE	E870								1						

TABLE 2.6

UNINTENTIONAL FATAL INJURY
BY EXTERNAL CAUSE BY AGE AND SEX
WISCONSIN, 1988

(OCCURRENCE DATA)

EXTERNAL CAUSE OF DEATH.....		25-34		35-44		45-54		55-64		65-74		75-84		85+	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F
XI. COMPLICATION OF MED. PROCEDURES	E878-879					1								1	2
ABNORMAL REACTION TO SURGERY	E878					1								1	1
ABNORMAL REACTION TO OTHER PROC.	E879														1
XII. FALLS	E880-888	5	1	6	1	9	1	13	4	33	14	50	35	47	80
STAIRS OR STEPS	E880	1	1	2	1	1	1	5	1	6	3	7	6	6	5
LADDERS OR SCAFFOLDING	E881									1		1			
BUILDING OR OTHER STRUCTURE	E882									2	1				
OTHER FALL, ONE LEVEL TO ANOTHER	E884	3		1		3		1		4	2	7	1	4	9
SLIPPING, TRIPPING OR STUMBLING	E885								1		2	1	3	2	6
COLLISION, PUSHING OR SHOVING	E886														
FRACTURE, CAUSE UNSPECIFIED	E887												1	3	1
OTHER AND UNSPECIFIED FALL	E888	1		3		5		7	2	20	6	34	24	32	59
XIII. FIRE	E890-899	9		6	2	3	1	1	1	5	1	4	1	3	5
PRIVATE DWELLING	E890	8		5	2	3	1	1	1	3	1	4	1	3	4
FIRE NOT IN BUILDING	E892	1								1					
IGNITION OF CLOTHING	E893									1					1
CONT. FIRE NOT IN BUILDING	E897			1											
XIV. NATURAL AND ENVIRONMENTAL	E900-909	1	2	4		3	1	2	3	2	2	6	3	4	2
EXCESSIVE HEAT	E900			2				1	1	1	2	1	1	1	
EXCESSIVE COLD	E901		2	2		2	1	1	2	1		4	2	2	2
HUNGER, THIRST, EXPOSURE	E904					1						1		1	
LIGHTNING	E907	1													
XV. SUBMERSION, SUFFOCATION	E910-915	12	2	13	5	3	2	7	1	5	2	16	12	8	13
DROWNING AND SUBMERSION	E910	10	2	8	1	1		1			1	1	1		2
INHALATION OR INGESTION OF FOOD	E911			2	2		1	2		1	1	7	8	3	5
INHALATION/INGESTION OTHER OBJ.	E912	1			1		1	2	1	4		6	3	5	4
MECHANICAL SUFFOCATION	E913	1		3	1	2		1				2			1
FOREIGN BODY / OTHER ORIFICE	E915							1							1
XVI. OTHER	E916-928	14	2	9		12	2	13		10		8		1	2
STRUCK BY FALLING OBJECT	E916			1				3		1		2			
STRUCK BY OBJECTS OR PERSONS	E917	1										1			
CAUGHT IN OR BETWEEN OBJECTS	E918					1		1		1					
MACHINERY	E919	5	2	3		7	1	4		4		3			
EXPLOSION OF PRESSURE VESSEL	E921									1					
FIREARM MISSILE	E922	3		1		1		1		1		1			
EXPLOSIVE MATERIAL	E923	2				1		1				1			
HOT, CAUSTIC OR CORROSIVE OBJECT	E924	1				1				1				1	2
ELECTRIC CURRENT	E925	2		4		1		1		1					
OVEREXERTION, STRENUOUS ACTIVITY	E927							1							
OTHER ENVIRONMENTAL CAUSES	E928						1	1							
XVII. LATE EFFECTS OF UNINTENT. INJURY	E929	3		1		1	1	2	1			1	1	1	1
XVIII. ADVERSE REACTION TO DRUGS	E930-949									1			1		1
HORMONES AND SUBSTITUTES	E932														1
OTHER AND UNSPECIFIED DRUGS	E947									1			1		
BACTERIAL VACCINES	E948														

CASES WITH UNKNOWN SEX= 0

Figure 9

DEATH RATES FROM UNINTENTIONAL INJURY
BY AGE GROUPS AND SEX
WISCONSIN, 1988

(Resident Data)

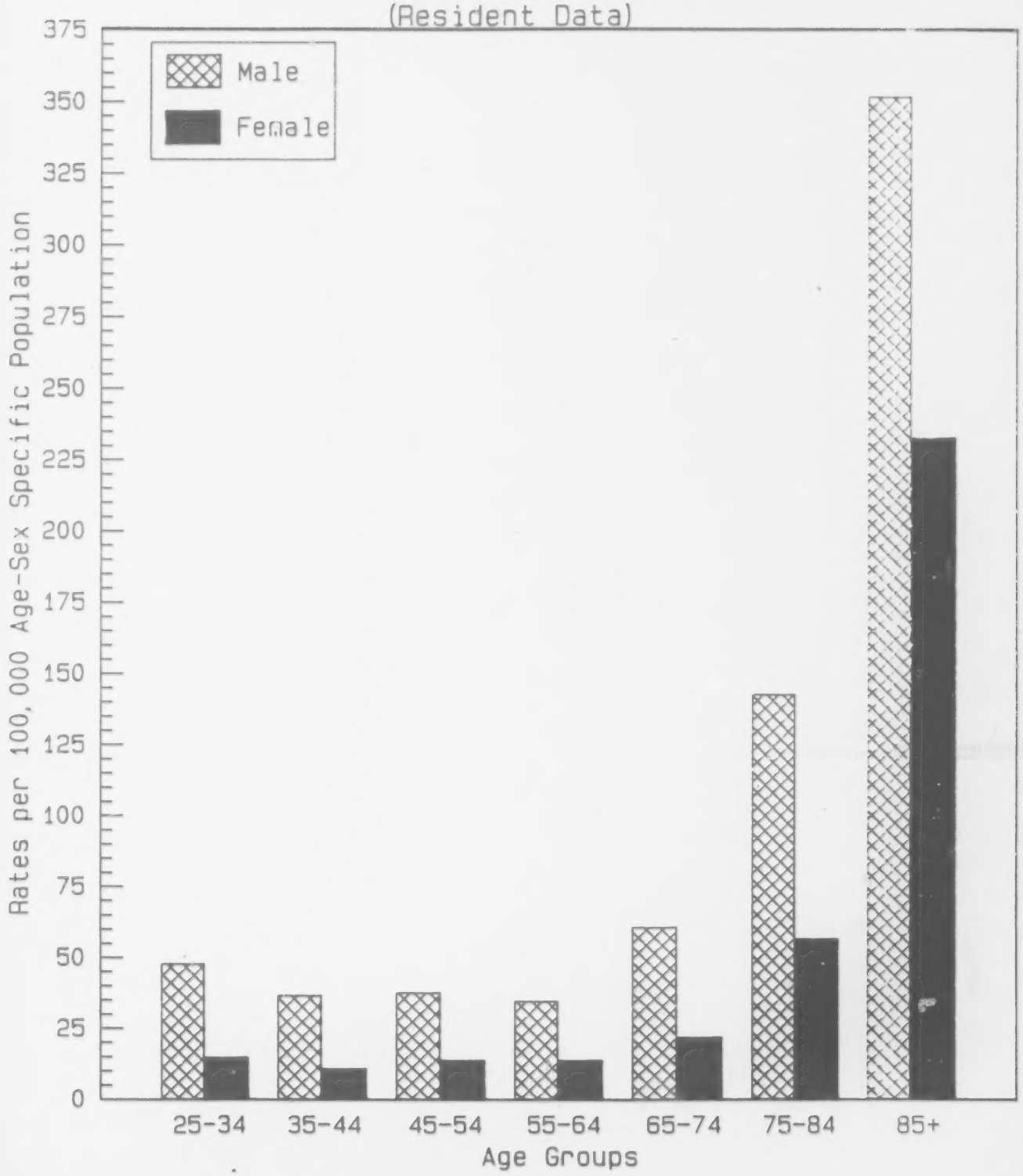


TABLE 2.7

MORTALITY BY AGE
BY OCCUPATION AND SEX
WISCONSIN 1988

(RESIDENT DATA)

	TOTAL	Managerial, Professional	Technical, Sales, Administrative	Service	Farming	Precision Production, Repair, Craft	Operators, Fabricators, Laborers	Transportation	Homemaker	Student	Other, Unreported
Total	42,050	5,753	5,659	2,990	3,326	5,094	5,226	1,491	11,546	257	708
16-19	263	3	10	9	6	13	27	2	0	177	16
20-24	377	11	45	35	19	59	95	10	16	47	40
25-29	368	43	47	34	10	50	95	16	25	12	30
30-34	385	43	49	40	12	49	85	34	31	10	32
35-39	462	84	67	45	13	73	96	17	42	6	19
40-44	563	89	103	43	18	73	97	32	70	0	38
45-49	704	130	112	60	21	101	112	48	88	0	32
50-54	1,060	182	159	83	39	153	168	70	176	0	30
55-59	1,724	280	288	147	60	231	238	111	321	0	48
60-64	2,760	424	432	218	129	422	416	166	491	0	62
65-69	3,905	578	584	300	270	598	583	175	737	1	79
70-74	5,149	676	730	364	407	784	780	218	1,115	0	75
75-79	6,210	840	854	460	560	804	840	230	1,540	1	81
80-84	6,669	956	878	454	670	743	734	178	2,000	1	55
85-89	5,816	737	740	369	593	529	494	120	2,191	0	43
90-94	3,871	484	412	224	342	299	271	48	1,768	1	22
95+	1,764	193	149	105	151	113	95	16	935	1	6

MALE

Total	21,612	3,513	2,787	1,194	3,212	4,788	3,946	1,464	1	178	529
16-19	194	2	5	5	6	13	25	2	0	124	12
20-24	291	4	28	20	19	58	83	10	0	35	34
25-29	259	27	33	16	15	46	79	15	1	6	21
30-34	265	22	25	19	11	47	78	33	0	8	22
35-39	302	53	32	22	12	69	80	17	0	5	12
40-44	353	63	52	21	16	68	78	29	0	0	26
45-49	441	89	55	28	18	98	84	46	0	0	23
50-54	645	111	76	39	38	150	141	69	0	0	21
55-59	1,011	196	140	73	58	214	182	108	0	0	40
60-64	1,768	321	245	118	127	401	338	165	0	0	53
65-69	2,398	423	327	130	257	570	457	172	0	0	62
70-74	3,048	470	395	174	396	747	598	213	0	0	55
75-79	3,387	532	455	171	548	770	624	226	0	0	61
80-84	3,250	562	414	172	649	698	536	178	0	0	41
85-89	2,343	377	300	114	575	487	343	118	0	0	29
90-94	1,219	200	158	48	326	256	173	47	0	0	11
95+	438	61	47	24	141	96	47	16	0	0	6

FEMALE

Total	20,438	2,240	2,872	1,796	114	306	1,280	27	11,545	79	179
16-19	69	1	5	4	0	0	2	0	0	53	4
20-24	86	7	17	15	0	1	12	0	16	12	6
25-29	109	16	14	18	1	4	16	1	24	6	9
30-34	120	21	24	21	1	2	7	1	31	2	10
35-39	160	31	35	23	1	4	16	0	42	1	7
40-44	210	26	51	22	2	5	19	3	70	0	12
45-49	263	41	57	32	3	3	28	2	88	0	9
50-54	415	71	83	44	1	3	27	1	176	0	9
55-59	713	84	148	74	2	17	56	3	321	0	8
60-64	992	103	187	100	2	21	78	1	491	0	9
65-69	1,507	155	257	170	13	28	126	3	737	1	17
70-74	2,101	206	335	190	11	37	182	5	1,115	0	20
75-79	2,823	308	399	289	12	34	216	4	1,540	1	20
80-84	3,419	394	464	282	21	45	198	0	2,000	1	14
85-89	3,473	360	440	255	18	42	151	2	2,191	0	14
90-94	2,652	284	254	176	16	43	98	1	1,768	1	11
95+	1,326	132	102	81	10	17	48	0	935	1	0

USUAL OCCUPATION IS REPORTED ON THE DEATH CERTIFICATE

Figure 10

DEATHS BY LEADING CAUSE BY SEX
WISCONSIN, 1988

(Resident Data)

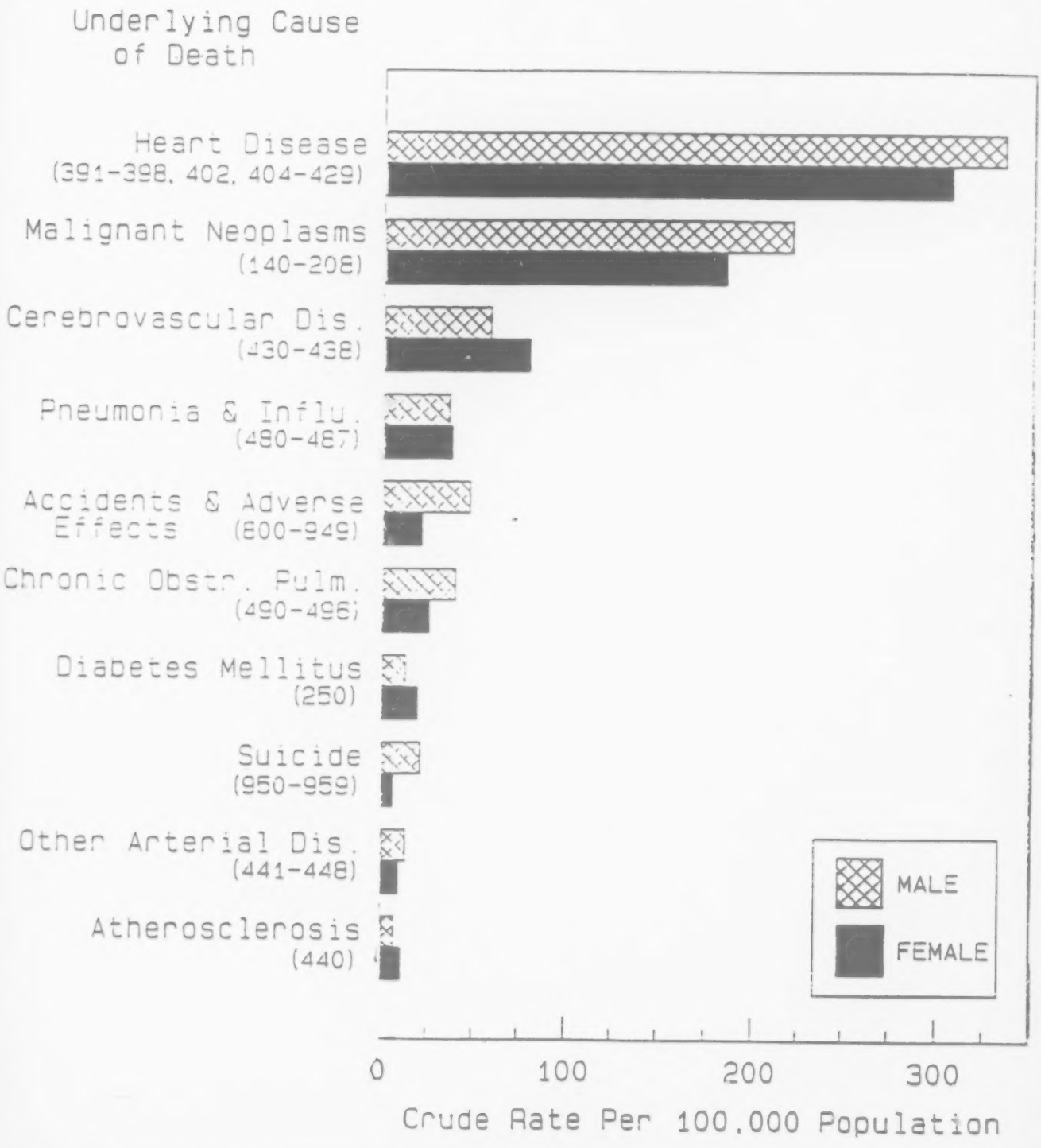


TABLE 2.8

LEADING FIFTEEN CAUSES OF DEATH BY SEX
WISCONSIN, 1988

(Resident Data)

Cause of Death	I.C.D. Code	Number of Deaths	Percent of Deaths in this Category	Rate per 100,000 Population
Total Deaths		42,978	100.0	885.2
Heart Disease	391-398,402,404-429	15,553	36.2	320.4
Malignant Neoplasms	140-208	9,796	22.8	201.8
Cerebrovascular Diseases	430-438	3,383	7.9	69.7
Pneumonia and Influenza	480-487	1,797	4.2	37.0
Accidents and Adverse Effects	800-949	1,667	3.9	34.3
Chronic Obstructive Pulmonary	490-496	1,587	3.7	32.7
Diabetes Mellitus	250	786	1.8	16.2
Suicide	950-959	652	1.5	13.4
Other Arterial Disease	441-448	536	1.2	11.0
Atherosclerosis	440	423	1.0	8.7
Nephritis and Nephrosis	580-589	420	1.0	8.7
Chronic Liver Dis. and Cirrhosis	571	394	0.9	8.1
Septicemia	038	328	0.8	6.8
Congenital Anomalies	740-759	244	0.6	5.0
Conditions of Perinatal Period	760-779	236	0.5	4.9
Male Deaths		22,161	100.0	930.3
Heart Disease	391-398,402,404-429	7,963	35.9	334.3
Malignant Neoplasms	140-208	5,238	23.6	219.9
Cerebrovascular Diseases	430-438	1,403	6.3	58.9
Accidents and Adverse Effects	800-949	1,143	5.2	48.0
Chronic Obstructive Pulmonary	490-496	957	4.3	40.2
Pneumonia and Influenza	480-487	868	3.9	36.4
Suicide	950-959	506	2.3	21.2
Other Arterial Disease	441-448	315	1.4	13.2
Diabetes Mellitus	250	310	1.4	13.0
Chronic Liver Dis. and Cirrhosis	571	249	1.1	10.5
Nephritis and Nephrosis	580-589	229	1.0	9.6
Atherosclerosis	440	168	0.8	7.1
Septicemia	038	155	0.7	6.5
Congenital Anomalies	740-759	149	0.7	6.3
Ill Defined Conditions	780-799	136	0.6	5.7
Female Deaths		20,817	100.0	841.8
Heart Disease	391-398,402,404-429	7,590	36.5	306.9
Malignant Neoplasms	140-208	4,558	21.9	184.3
Cerebrovascular Diseases	430-438	1,980	9.5	80.1
Pneumonia and Influenza	480-487	929	4.5	37.6
Chronic Obstructive Pulmonary	490-496	630	3.0	25.5
Accidents and Adverse Effects	800-949	524	2.5	21.2
Diabetes Mellitus	250	476	2.3	19.2
Atherosclerosis	440	255	1.2	10.3
Other Arterial Disease	441-448	221	1.1	8.9
Nephritis and Nephrosis	580-589	191	0.9	7.7
Septicemia	038	173	0.8	7.0
Suicide	950-959	146	0.7	5.9
Chronic Liver Dis. and Cirrhosis	571	145	0.7	5.9
Hypertension w/ or w/o Renal	401,403	102	0.5	4.1
Conditions of Perinatal Period	760-779	101	0.5	4.1

TABLE 2.9A

UNDERLYING CAUSE OF DEATH, BY OTHER LISTED CAUSES *
WISCONSIN, FIVE YEARS, 1984-1988

(RESIDENT DEATHS ONLY)

UNDERLYING CAUSE OF DEATH MAJOR CAUSE GROUPS ICD-9	GROUP NO.	TOTAL DEATHS	OTHER LISTED CAUSES FREQUENCY BY MAJOR CAUSE GROUPS							
			ALL ** GROUPS	GROUP 1	2	3	4	5	6	7
ALL CAUSES 001-999		209,476	196,977	7,079	7,584	13,177	2,830	4,256	11,906	9,531
INFECTIVE & PARASITIC 001-139	1	2,289	2,120		218	158	50	95	197	178
MALIGNANT NEOPLASMS 140-208	2	47,038	43,214	1,597		1,458	1,029	1,522	1,078	1,044
DIABETES 250	3	3,782	6,617	214	135		39	74	256	241
NUTRITIONAL DEFICIENCIES 260-269	4	371	769	45	2	14		10	76	23
BLOOD & BLOOD-FORMING ORGANS 280-289	5	773	1,299	113	49	27	18		42	32
MENTAL DISORDERS 290-319	6	2,620	4,342	122	82	124	247	53		221
NERVOUS SYSTEM & SENSE ORGANS 320-389	7	3,897	5,527	164	125	135	158	48	287	
CIRCULATORY SYSTEM 390-459	8	102,910	75,958	1,613	4,286	9,589	699	1,419	5,529	5,381
PNEUMONIA 480-486	9	7,338	11,216	606	558	425	110	167	1,111	776
CHRONIC OBSTRUCTIVE PULMONARY 490-496	10	7,033	11,992	199	529	236	121	70	658	255
ULCER OF STOMACH, DUOD & JEJU 531-534	11	653	1,379	74	61	31	9	36	37	35
CHRONIC LIVER AND CIRRHOSIS 571	12	1,980	3,698	113	70	98	36	103	420	52
NEPHRITIS & NEPHROSIS 580-589	13	1,947	3,104	125	104	133	11	90	97	77
MUSCULOSKELETAL & CONNECTIVE 710-739	14	725	1,409	92	27	38	28	36	46	47
CONGENITAL ANOMALIES 740-759	15	1,247	1,557	29	11	7	4	18	26	50
PERINATAL 760-779	16	1,341	337	4				6	2	8
MOTOR VEHICLE E810-E825	17	4,016	936	24	5	4	1	13	113	100
OTHER ACCIDENTS E800-E809,E826-E947	18	3,941	3,720	104	101	93	30	56	406	268
SUICIDE E950-E959	19	3,141	976	7	57	9		2	442	39
HOMICIDE E960-E969	20	798	174	6	2	3		1	32	17
ALL OTHER OTHER	21	11,636	14,633	1,828	662	595	240	437	1,051	687

* IF THE SAME CAUSE GROUP APPEARS ON THE CERTIFICATE AS 'UNDERLYING' AND AS 'OTHER' IT IS COUNTED ONLY AS 'UNDERLYING'. THIS CREATES A DIAGONAL OF EMPTY CELLS WHERE THE SAME 'UNDERLYING'AND 'OTHER' CAUSE GROUPS INTERSECT.
** CELL PERCENTAGES ARE BASED ON THE TOTALS IN THIS COLUMN
GROUP NUMBERS REFER TO GROUPS ON TABLE 2.9A

TABLE 2.9A

UNDERLYING CAUSE OF DEATH, BY OTHER LISTED CAUSES
WISCONSIN, FIVE YEARS, 1984-1988

(RESIDENT DEATHS ONLY)

8	9	10	11	12	13	14	15	16	17	18	19	20	21	NO.
36,118	12,902	9,821	1,128	1,082	9,771	4,125	479	559	71	6,885	16	13	57,644	
1,072	194	136	25	54	261	83	17	9	1	97		2	1,273	1
11,947	2,853	2,278	199	235	1,735	575	36	1	3	1,111			14,513	2
3,140	216	86	21	24	747	90	4			104			1,226	3
181	100	13	4		16	17	1			20		1	246	4
408	94	21	11	15	58	26	15	1		36			333	5
982	589	74	23	3	70	89	8			311	4		1,340	6
1,279	756	87	22	15	81	92	20	14	2	306		1	1,935	7
	5,323	5,800	520	443	4,759	2,300	179	16	56	3,090	7	6	24,443	8
3,379		428	39	49	298	197	42	16	2	125			2,888	9
3,687	1,354		60	46	185	160	7		2	207			4,216	10
326	26	41		17	67	39	3			79			498	11
705	94	62	45		208	25	3	1	1	53			1,609	12
1,235	151	88	22	14		44	11	11	1	56			834	13
339	116	33	17	3	64		8			104	1		410	14
409	52	13	4	4	72	6		452		99		1	300	15
71	26	1	1	1	40		59			6			112	16
378	17	7	3	1	20	2	2	3		34			209	17
1,204	134	92	18	26	89	52	8	2	1		1		1,035	18
179	4	13	1	1	8	5	1		1	18			189	19
55	9			1	4					8	1		35	20
5,142	794	548	93	130	989	323	55	33	1	1,021	2	2		21

TABLE 2.9B

DEATHS WITH CIRCULATORY DISEASE AS THE UNDERLYING CAUSE,
BY OTHER LISTED CAUSES
WISCONSIN, FIVE YEARS, 1984-1988

(RESIDENT DEATHS ONLY)

UNDERLYING CAUSE OF DEATH MAJOR CAUSE GROUPS ICD-9	GROUP NO.	TOTAL DEATHS	OTHER LISTED CAUSES FREQUENCY OF TOTAL MAJOR CAUSE GROUPS							
			ALL ** GROUPS	GROUP 1	2	3	4	5	6	7
ALL CIRCULATORY 390-459		102,910	153,412	1,613	4,786	9,589	699	1,419	5,529	5,381
HYPERTENSION 401-405	8.1	2,441	4,637	28	101	266	21	53	153	136
ISCHEMIC HEART 410-414	8.2	59,360	91,786	549	2,557	6,203	251	751	2,842	2,416
OTHER HEART DISEASE 420-429	8.3	16,575	18,226	316	981	1,222	136	288	1,044	914
CEREBROVASCULAR 430-438	8.4	16,775	26,047	366	672	1,498	204	164	1,012	1,601
ATHEROSCLEROSIS 440	8.5	2,620	4,300	97	120	157	60	57	274	141
OTHER CIRCULATORY *	8.6	5,139	8,416	257	355	243	27	106	204	173

		8.1	8.2	8.3	8.4	8.5	8.6	9	10	11	12
ALL CIRCULATORY 390-459		8,962	2,956	45,069	7,209	9,456	3,530	5,323	5,800	520	443
HYPERTENSION 401-405	8.1		1	1,490	361	359	117	92	118	13	16
ISCHEMIC HEART 410-414	8.2	5,640		36,619	4,703	4,774	1,969	1,927	3,556	294	207
OTHER HEART DISEASE 420-429	8.3	743	423		1,730	375	757	1,088	1,178	90	118
CEREBROVASCULAR 430-438	8.4	2,255	1,851	3,615		3,374	552	1,788	514	81	52
ATHEROSCLEROSIS 440	8.5		1	1,491	6		135	240	106	11	8
OTHER CIRCULATORY *	8.6	324	680	1,854	409	574		188	328	31	42

		13	14	15	16	17	18	19	20	21
ALL CIRCULATORY 390-459		4,759	2,300	179	16	56	3,090	7	6	24,715
HYPERTENSION 401-405	8.1	582	62	7			49		1	611
ISCHEMIC HEART 410-414	8.2	2,130	1,258	81		38	1,259	2	4	11,756
OTHER HEART DISEASE 420-429	8.3	1,045	434	51	9	3	530	2		4,749
CEREBROVASCULAR 430-438	8.4	343	339	15		7	705	2		5,037
ATHEROSCLEROSIS 440	8.5	296	90	2		1	112			895
OTHER CIRCULATORY *	8.6	363	117	23	7	7	435	1	1	1,667

IF THE SAME CAUSE GROUP APPEARS ON THE CERTIFICATE AS 'UNDERLYING' AND AS 'OTHER' IT IS COUNTED ONLY AS 'UNDERLYING'.
THIS CREATES A DIAGONAL OF EMPTY CELLS WHERE THE SAME 'UNDERLYING' AND 'OTHER' CAUSE GROUPS INTERSECT.
* 390-398,415-417,441-448,451-459

MARRIAGE AND DIVORCE

1988 MARRIAGE AND DIVORCE STATISTICS

Marriages: A total of 41,445 marriages occurred in Wisconsin in 1988, representing a small increase from the 37,647 marriages that occurred in 1987. The 1988 total also represents the highest annual number of marriages recorded in Wisconsin. The crude marriage rate equaled 8.5 per 1,000 population. The highest rate recorded in this decade was 8.9 in 1982. This rate had earlier been achieved in 1973. The highest marriage rates recorded in Wisconsin were for the three years immediately following World War II, 1946-1948 (Table R 1.6, Figure 11).

The median age of brides at first marriages increased slightly from 1960 to 1980 (20.4 to 21.7) and then somewhat more from 1980 to 1988 (21.7 to 23.9) (Table 3.1). The median age of grooms for first marriages increased slightly from 1960 to 1980 (22.9 to 23.5) and rose from 1980 to 1988 (23.5 to 25.7). At first marriage, brides are usually about two years younger than grooms. The median age of women who remarried declined from 39.9 to 31.7 from 1960 to 1980 and then rose from 31.7 to 34.6 from 1980 to 1988. Men who remarried followed a similar pattern. The age difference between men and women who remarried declined from about five years in 1960 to approximately three years in 1988.

Milwaukee County had the highest number of marriages (7,669), followed by Dane County (2,935) Waukesha County (2,354) and Kenosha County (2,077). Kenosha and Walworth counties experienced a doubling in the number of marriages between 1987 and 1988, probably reflecting passage of a law in Illinois which required mandatory HIV antibody (AIDS) testing prior to marriage. Two other border counties, Rock and Racine, showed increases of almost 24 percent and 12 percent respectively. The Illinois law was repealed in 1989.

More marriages in 1988 occurred in June (5,285) than any other month. June was followed by September. The lowest number of marriages, 1,298, occurred in January (Table 3.3).

Figure 11

MARRIAGE RATES
WISCONSIN, 1930–1988

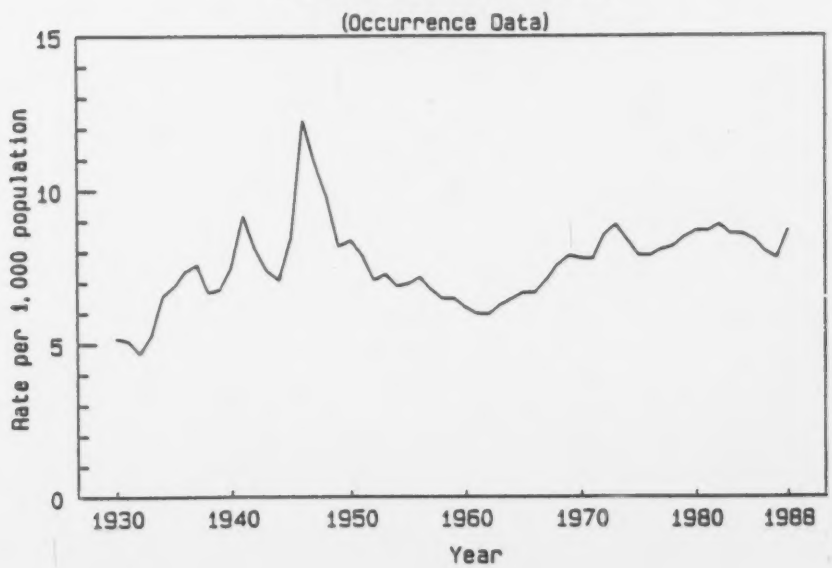


Table 3.1

Median Age at First Marriage and at Remarriage
Wisconsin, 1960-1988
(Occurrence Data)

Year	First Marriage		Remarriage	
	Bride	Groom	Bride	Groom
1960	20.4	22.9	39.9	45.1
1965	20.6	22.5	40.4	45.2
1970	20.8	22.6	37.4	42.6
1975	20.8	22.7	32.4	37.1
1980	21.7	23.5	31.7	34.9
1985	22.9	24.7	33.7	36.9
1986	23.2	25.0	33.7	37.3
1987	23.5	25.2	34.2	37.8
1988	23.9	25.7	34.6	38.0

Figure 12

MEDIAN AGE AT FIRST MARRIAGE AND REMARRIAGE
WISCONSIN, 1960–1988

(Occurrence Data)

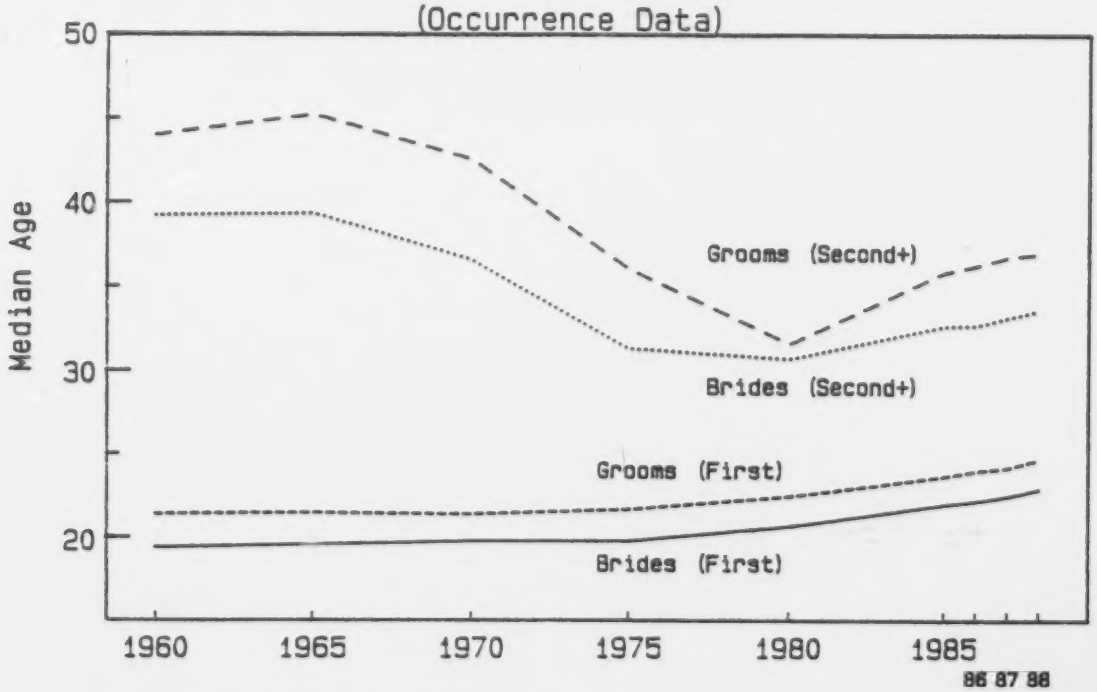


TABLE 3.2

MARRIAGES BY AGE,
BY BRIDE AND BY GROOM, BY NUMBER OF THIS MARRIAGE
WISCONSIN, 1988

(OCCURRENCE DATA)

AGE	BRIDE					GROOM				
	TOTAL MARRIAGES	FIRST	SECOND	THIRD	FOURTH OR MORE	TOTAL MARRIAGES	FIRST	SECOND	THIRD	FOURTH OR MORE
TOTAL	41445	29219	10181	1761	284	41445	29679	9946	1550	270
16 YEARS	193	193				8	8			
17 YEARS	347	347				61	61			
18 YEARS	1253	1250	3			384	384			
19 YEARS	1890	1879	11			799	799			
20 YEARS	2298	2273	25			1278	1274	4		
21 YEARS	2897	2823	74			1969	1956	13		
22 YEARS	3185	3051	131	1	2	2523	2488	35		
23 YEARS	3407	3225	179	3		3076	2989	86		1
24 YEARS	3174	2860	305	8	1	3095	2984	109	2	
25 YEARS	2796	2398	388	9	1	2937	2768	168	1	
26 YEARS	2359	1887	453	18	1	2842	2594	241	6	1
27 YEARS	2084	1540	516	25	3	2472	2130	334	7	1
28 YEARS	1813	1207	563	43		2112	1732	364	16	
29 YEARS	1485	914	519	50	2	1913	1451	453	9	
30 YEARS	1410	736	610	58	6	1750	1266	459	25	
31 YEARS	1210	613	507	79	11	1436	961	437	35	3
32 YEARS	1048	449	519	73	7	1260	773	439	42	6
33 YEARS	975	372	501	90	12	1163	651	444	64	4
34 YEARS	806	268	432	93	13	1018	480	474	55	9
35 YEARS	737	199	445	80	13	916	367	480	60	9
36 YEARS	617	153	365	86	13	876	335	470	65	6
37 YEARS	520	100	333	77	10	706	244	386	67	9
38 YEARS	491	99	293	83	16	611	181	352	73	5
39 YEARS	494	81	309	89	15	549	142	316	76	15
40 YEARS	399	58	257	73	11	545	118	342	77	8
41 YEARS	425	39	277	85	24	547	99	356	82	10
42 YEARS	305	27	203	60	15	379	69	247	57	6
43 YEARS	252	26	155	57	14	316	48	199	59	10
44 YEARS	264	31	168	56	9	303	36	205	52	10
45-49 YEARS .	995	56	689	205	45	1273	121	866	229	57
50-54 YEARS .	473	30	342	83	18	819	74	549	155	41
55-59 YEARS .	293	17	199	70	7	515	42	374	76	23
60-64 YEARS .	234	9	171	46	8	409	31	285	75	18
65-69 YEARS .	154	6	121	25	2	268	15	203	38	12
70-74 YEARS .	106	2	81	19	4	172	5	140	24	3
75+ YEARS ...	56	1	37	17	1	145	3	116	23	3

TABLE 3.3

MARRIAGES BY COUNTY,
BY MONTH
WISCONSIN, 1988

(OCCURRENCE DATA)

COUNTY	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL	41445	1298	1697	1798	3258	4149	5285	4534	4868	4911	4775	2390	2482
ADAMS	114	6	5	8	7	8	9	15	16	13	9	4	14
ASHLAND	172	6	7	9	10	18	24	20	22	24	21	6	5
BARRON	356	16	16	15	24	28	54	41	45	35	43	14	25
BAYFIELD	101	5	3	1	3	7	15	18	15	9	15		10
BROWN	1705	64	72	65	143	176	212	174	205	202	214	102	76
BUFFALO	101	3	3	4	9	7	16	5	12	12	16	5	9
BURNETT	91	4	3		3	10	7	10	11	16	13	4	10
CALUMET	192	3	2	7	16	19	22	22	22	33	31	10	5
CHIPPEWA	414	7	6	12	34	47	60	44	47	56	48	18	35
CLARK	236	5	10	3	16	23	36	24	32	34	26	10	17
COLUMBIA	410	12	12	8	39	48	43	46	56	45	50	22	29
CRAWFORD	155	9	2	4	11	17	30	17	18	21	14	6	6
DANE	2935	113	116	132	223	294	379	319	353	348	324	158	176
DODGE	544	11	15	20	39	60	79	71	63	56	65	32	33
DOOR	335	9	12	8	20	35	52	38	44	44	36	13	24
DOUGLAS	284	9	18	8	29	25	31	34	39	27	28	11	25
DUNN	215	4	8	12	15	25	34	26	27	12	20	15	17
EAU CLAIRE	608	22	24	30	58	64	82	60	57	63	79	27	42
FLORENCE	17	1			1	2	2	3	1	3	1	1	2
FOND DU LAC	684	14	21	33	55	70	89	89	74	85	75	45	34
FOREST	64	2	5	4	8	6	11	5	6	4	7	1	5
GRANT	389	10	9	15	39	35	43	37	47	54	57	20	23
GREEN	345	4	9	17	21	44	39	37	35	41	42	26	30
GREEN LAKE	170	2	4	6	12	21	16	15	23	27	26	10	8
IOWA	189	9	7	3	12	23	16	18	19	31	30	10	11
IRON	51	2	3	3	1	4	4	6	8	9	6	1	4
JACKSON	141	6	4	5	9	18	21	18	12	12	16	9	11
JEFFERSON	638	20	29	25	59	68	88	63	61	73	83	38	31
JUNEAU	178	5	8	7	15	19	23	17	16	19	22	12	15
KENOSHA	2077	42	137	155	163	204	271	225	222	198	190	125	145
KEWAUNEE	140	3	3	2	12	11	19	11	21	21	23	6	8
LA CROSSE	769	25	29	36	64	66	95	91	80	109	90	41	43
LAFAYETTE	134	3	6	5	9	16	13	13	14	23	16	8	8
LANGLADE	175	10	6	8	13	18	16	19	18	23	19	8	17
LINCOLN	266	14	17	10	27	24	35	30	31	23	26	10	19
MANITOWOC	649	22	20	19	66	64	88	65	82	78	78	41	26
MARATHON	847	25	34	25	68	76	114	100	110	111	95	48	41
MARINETTE	319	10	8	18	25	32	43	36	34	40	35	14	24
MARQUETTE	97	2	4	3	10	4	15	9	11	15	12	8	4
MENOMINEE	31	1	2	2	2	2	4	3	6	3	3	2	1
MILWAUKEE	7669	255	354	373	579	766	944	810	858	913	840	509	468
MONROE	289	18	11	16	24	20	39	24	33	38	32	14	20
OCONTO	248	2	8	10	17	24	39	26	38	23	32	14	15
ONEIDA	320	13	15	14	12	26	43	41	45	42	30	15	24
OUTAGAMIE	1220	38	42	47	106	122	148	129	142	145	160	85	56
OZAUKEE	553	10	15	19	45	61	74	66	67	73	59	38	26
PEPIN	58	2	2	3	4	10	6	6	4	4	9	5	3
PIERCE	204	6	5	4	20	14	22	24	26	36	21	10	16
POLK	267	4	15	3	24	20	36	34	41	36	23	17	14
PORTAGE	459	17	15	9	31	44	66	48	62	60	65	24	18
PRICE	113	1	4	5	10	8	10	22	20	15	11		7
RACINE	1447	41	68	77	100	151	170	176	178	162	159	79	86
RICHLAND	136	6	12	4	7	17	20	12	15	19	10	8	6
ROCK	1461	47	69	70	121	126	177	161	153	162	159	101	115
RUSK	130	4	5	7	9	16	18	17	13	13	10	7	11
ST. CROIX	386	10	14	13	36	36	44	41	46	53	44	26	23
SAUK	506	15	13	16	36	55	65	54	67	66	60	28	31
SAWYER	126	6	7	5	6	15	10	14	24	12	12	7	8
SHAWANO	242	7	11	4	22	25	32	26	25	24	33	16	17
SHEBOYGAN	800	29	26	33	49	99	87	98	82	97	105	54	41
TAYLOR	126	2	2	5	16	8	12	22	18	14	15	5	7
TREMPEALEAU	228	3	8	10	18	18	40	21	33	31	28	8	10
VERNON	182	3	3	10	11	14	27	24	19	27	23	11	10
VILAS	157	7	5	9	12	13	17	21	24	14	16	11	8
WALWORTH	1211	29	50	56	86	124	153	134	153	127	131	83	85
WASHBURN	129	4	3	6	10	14	14	18	17	14	22	4	3
WASHINGTON	719	22	27	35	53	69	109	78	77	89	88	38	34
WAUKESHA	2354	84	102	84	193	250	310	255	270	276	297	115	118
WAUPACA	477	10	13	21	44	45	65	55	62	55	61	23	23
WAUSHARA	126	3	6	6	6	18	11	13	16	11	21	8	7
WINNEBAGO	1073	34	38	46	90	103	141	97	150	119	138	60	57
WOOD	691	26	30	31	71	80	86	73	75	89	57	26	47

Divorces: The number of divorces and annulments in Wisconsin in 1988 totaled 17,127, an increase of 1.2 percent from the 16,923 recorded in 1987 (Table R 1.6). The divorce rate was 3.5 per 1,000 population. This rate has changed little in the past five years. The highest recorded divorce rate for Wisconsin occurred in 1981, when it reached 3.9 per 1,000 population.

The highest number of divorces and annulments occurred in Milwaukee County (3,519) followed by Dane County (1,331) and Waukesha County (1,023), reflecting the higher populations of those counties.

Figure 13

DIVORCE AND ANNULMENT RATES
WISCONSIN, 1930–1988

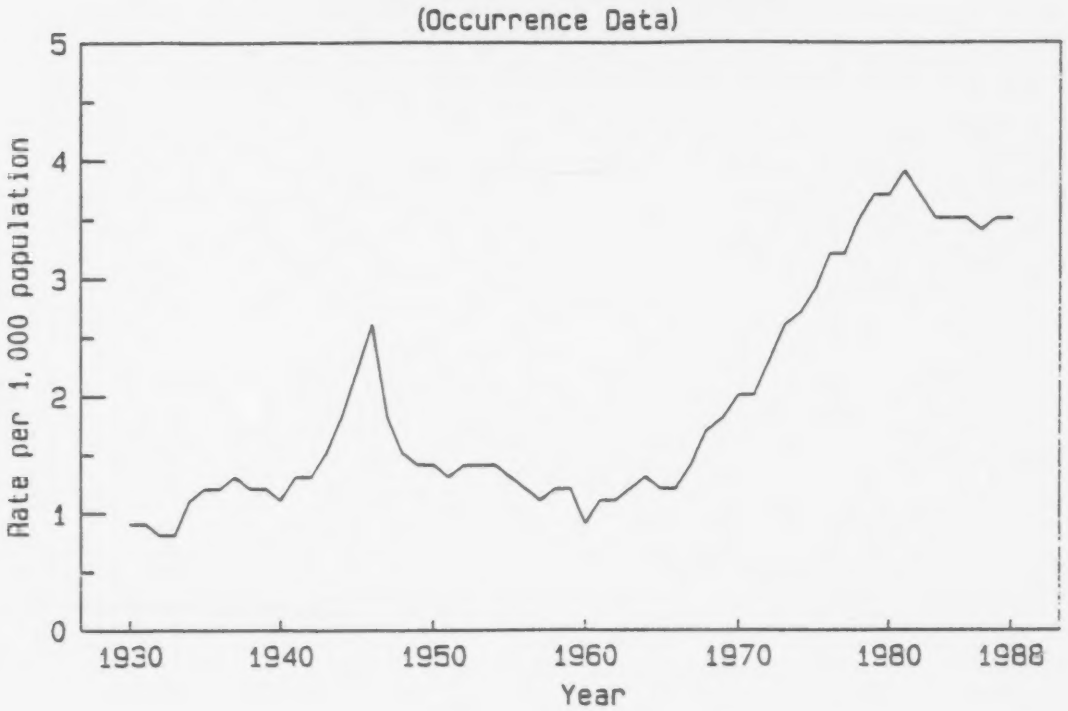


TABLE 3.4

DIVORCES AND ANNULMENTS BY COUNTY
WISCONSIN, 1988

(Occurrence Data)

County	Total*	Divorces	Annulments	County	Total*	Divorces	Annulments
State Total	17,127	16,982	49				
Adams	47	47	-	Marathon	371	369	2
Ashland	45	45	-	Marinette	144	138	-
Barron	165	163	1	Marquette	43	43	-
Bayfield	42	42	-	Menominee	-	-	-
Brown	702	702	-	Milwaukee	3,519	3,456	16
Buffalo	33	32	1	Monroe	127	127	-
Burnett	56	56	-	Oconto	89	89	-
Calumet	79	79	-	Oneida	149	148	1
Chippewa	197	197	-	Outagamie	440	439	1
Clark	88	88	-	Ozaukee	229	228	-
Columbia	157	155	-	Pepin	13	13	-
Crawford	46	46	-	Pierce	107	107	-
Dane	1,331	1,328	3	Polk	133	133	-
Dodge	255	255	-	Portage	144	144	-
Door	80	80	-	Price	49	49	-
Douglas	157	156	1	Racine	553	546	1
Dunn	109	109	-	Richland	57	56	-
Eau Claire	326	326	-	Rock	624	621	1
Florence	21	21	-	Rusk	67	65	-
Fond du Lac	315	312	3	St. Croix	156	154	1
Forest	27	27	-	Sauk	189	189	-
Grant	147	147		Sawyer	55	55	-
Green	123	121	2	Shawano	100	100	-
Green Lake	56	56	-	Sheboygan	322	321	-
Iowa	47	45	-	Taylor	51	50	1
Iron	23	20	-	Trempealeau	80	80	-
Jackson	50	50	-	Vernon	81	79	1
Jefferson	274	274	-	Vilas	79	78	1
Juneau	81	80	1	Walworth	287	285	2
Kenosha	495	486	6	Washburn	46	46	-
Kewaunee	49	49	-	Washington	294	282	1
LaCrosse	355	354	-	Waukesha	1,023	1,022	1
Lafayette	51	50	-	Waupaca	159	159	-
Langlade	71	71	-	Waushara	63	63	-
Lincoln	102	102	-	Winnebago	567	563	1
Manitowoc	238	238	-	Wood	276	275	-
				Unknown	1	1	-

*Unknowns are included in total.

TECHNICAL NOTES

DEFINITIONS

Birthweight	Weight of fetus or infant at time of delivery (recorded in pounds and ounces, or grams).
Deliveries	Live births plus reported fetal deaths.
Fetal Death	Death prior to the complete expulsion or extraction from its mother of a product of conception; the fetus shows no sign of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. Only fetal deaths of at least 20 weeks of gestation or 350 grams or more in weight must be reported in Wisconsin. A fetal death report is NOT used for induced abortions.
Infant Death	Death occurring to a live-born individual less than one year of age.
Live Birth	A live birth is the complete expulsion or extraction from its mother of a product of conception irrespective of the duration of pregnancy, which after such separation, breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.
Low Birth-Weight	Birthweight of less than five pounds, eight ounces or 2500 grams.
Maternal Death	Those in which a maternal condition is designated as the underlying cause of death.
Minor Civil Division	Minor civil divisions are the local level of civil government: cities, villages or towns. There are no unorganized residual areas and none overlaps another though one may surround another.
Neonatal Death	Death of a live born infant before four weeks (28 days) of life.
Occurrence	Place where the event occurred.
Nonmarital	Birth to a mother who was not married at any time between the conception and birth of the child.
Plurality	Number of births per single pregnancy.
Race	On death certificates, race is reported by family members of the decedent. The race of a newborn does not appear on the birth certificate. In this report, race is that of mother. On marriage certificates, race is self-reported.
Residence	Usual place of residence of person to whom event occurred. For births and fetal deaths, residence is defined as the mother's place of residence.
Underlying Cause of Death	The disease or injury which initiated the train of events leading directly or indirectly to death or the circumstances of the accident or violence which produced the fatal injury.

RATES

Birth Rate	=	No. of Resident Live Births / Total Resident Population	x 1,000
Age-Specific Fertility Rate	=	No. of Resident Live Births for a Specific Age of Mother / Total Female Population of Specific Age	x 1,000
Death Rate	=	No. of Resident Deaths / Total Resident Population	x 1,000
Fetal Death Rate	=	No. of Resident Fetal Deaths / Total Resident Live Births and Resident Fetal Deaths	x 1,000
Infant Death Rate	=	No of Infant Deaths / Total Resident Live Births	x 1,000
Neonatal Death Rate	=	No. of Neonatal Deaths / Total Resident Live Births	x 1,000
Nonmarital Birth Ratio	=	No. of Resident Nonmarital Births / Total Resident Live Births	x 1,000
Maternal Death Rate	=	No. of Maternal Deaths / Total Resident Live Births	x 100,000
Age-Specific Death Rate	=	No. of Deaths in Specific Age Group / Total Resident Population in Specific Age Group	x 100,000
Cause-Specific Death Rate	=	No. of Deaths from Specific Cause / Total Resident Population	x 100,000
Marriage Rate	=	No. of Marriages Performed / Total Resident Population	x 1,000
Divorce Rate	=	No. of Divorces and Annulments Granted / Total Resident Population	x 1,000
Population Denominators	=	Mid-calendar year estimates	
Event Denominators	=	Are registered totals for the calendar year	

STATE OF WISCONSIN
DEPARTMENT OF HEALTH AND SOCIAL SERVICES

STATE FILING DATE
STATE BIRTH NO.

ORIGINAL CERTIFICATE OF LIVE BIRTH 148-

CERTIFIED COPY — SHORT FORM COPY

LOCAL FILE NUMBER

CHILD

CHILD NAME First Middle Last (1.)	SEX (2. ☐ Male ☐ Female)	DATE OF BIRTH (Month Day Year) (3a.)	HOUR (3b.) M
NAME OF HOSPITAL (If not in hospital, describe location or give address.) (4.)	COUNTY OF BIRTH (5a.)	CITY, VILLAGE OR TOWNSHIP (5b.)	INSIDE CITY OR VILLAGE LIMITS (5c. ☐ Yes ☐ No)

CERTIFIER

I certify that the stated information concerning this child is true to the best of my knowledge and belief. 6a. SIGNATURE ►	DATE SIGNED (Month Day Year) (6b.)	ATTENDANT (Name and Title if other than Certifier) (7. ☐ 1. M.D. ☐ 2. D.O. ☐ 3. C.N. Midwife ☐ 4. Other)
CERTIFIER NAME AND TITLE (Type or Print) (8a.)	MAILING ADDRESS Street or RFD No. City or Vill. State Zip (8b.)	
REGISTRAR SIGNATURE (9a.)	DATE RECEIVED BY LOCAL REGISTRAR Month Day Year (9b.)	

MOTHER

MOTHER MAIDEN NAME First Middle Last (10a.)	AGE (At time of birth) (10b.)	STATE OF BIRTH (If not in U.S., name country) (10c.)
RESIDENCE STATE (11a.)	RESIDENCE COUNTY (11b.)	RESIDENCE—CITY, VILLAGE, TOWNSHIP (11c.)
		INSIDE CITY OR VILLAGE LIMITS (11d. ☐ Yes ☐ No)

HUSBAND

HUSBAND NAME First Middle Last (12a.)	AGE (At time of birth) (12b.)	STATE OF BIRTH (If not in U.S., name country) (12c.)	BIRTHWEIGHT (12d. _____ Grams or _____ Lbs. _____ Oz.)
I certify that the information provided on this certificate is correct to the best of my knowledge and belief. SIGNATURE—PARENT OR 13a. OTHER INFORMANT		RELATION TO CHILD (13b.)	IF INFANT DIED, ENTER BELOW Month Day Year (13c. ☐ Died _____)

CONFIDENTIAL INFORMATION FOR MEDICAL AND HEALTH USE ONLY

DO NOT INCLUDE ON CERTIFIED COPY

	RACE	EDUCATION* Elem/Second	EDUCATION* College	Employed One Year Ago: Occupation	Employed One Year Ago: Firm or Agency	PREVIOUS DELIVERIES: LIVE BIRTHS (Exclude This Child) Now Living	Now Dead	DATE OF LAST LIVE BIRTH Month Year
HUSBAND	White, Black, Hispanic, American Indian, etc. (14a.)	(0 12) (14b.)	(1 4 or 5+)	(14c.)	(14d.)	(15a. _____ Number ☐ None)	(15b. _____ Number ☐ None)	(15c.)
MOTHER	White, Black, Hispanic, American Indian, etc. (16a.)	(16b.)	(16c.)	(16d.)		OTHER TERMINATIONS (Spontaneous or Induced) Less Than 20 Weeks Gestation (17a. _____ Number ☐ None)	20 Weeks or More Gestation (17b. _____ Number ☐ None)	DATE OF LAST OTHER TERMINATION Month Year (17c.)

DATE LAST NORMAL MENSES BEGAN Month Day Year (18.)	MONTH OF PREGNANCY PRENATAL CARE BEGAN (Month 1-9; Not Trimester) (19a.)	TOTAL NUMBER OF PRENATAL VISITS (19b. _____ ☐ None)	IS MOTHER MARRIED? (20. ☐ Yes ☐ No)	APGAR SCORE 1 Minute 5 Minutes (21a.)	THIS BIRTH Single, twin, triplet, etc. (21b.)	IF NOT SINGLE BIRTH Born first, second, third, etc. (21c.)

COMPLICATIONS OF PREGNANCY (Describe or Enter "None") (22.)	CONCURRENT ILLNESS OR CONDITIONS AFFECTING THIS PREGNANCY (Describe or Enter "None") (23.)
COMPLICATIONS OF LABOR AND/OR DELIVERY (Describe or Enter "None") (24.)	CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (Describe or Enter "None") (25.)

MOTHER'S MAILING ADDRESS (For Birth Registration Notification) Street or RFD City/Village Post Office and Zip (26.)	TYPE OF DELIVERY (Not Including Episiotomy) (27.)
	☐ 0 Spontaneous ☐ 1 Breech ☐ 2 Manipulation without instruments ☐ 3 Forceps, Low ☐ 4 Forceps, Mid and High ☐ 5 Other Surgical or Instrumental ☐ 6 Caesarean, Low Cervical ☐ 7 Caesarean, Classical ☐ 8 Caesarean, Other ☐ 9 Other, (Specify below) _____

*14b. & 16b. Highest grade completed

Type or Print in Permanent Black Ink

DOH 5000
Chapter 69
VS 1
300M REV 1/83

SAMPLE

101

DOH 5040
Rev. 6-84
Chap 69, Wis Stats

Type or Print In Permanent Black Ink

Reserved for Corrections & Amendments

STATE OF WISCONSIN
DEPARTMENT OF HEALTH AND SOCIAL SERVICES

ORIGINAL CERTIFICATE OF DEATH

STATE FILING DATE

STATE DEATH NO

LOCAL FILE NUMBER

DECEDENT

DECEDENT-NAME (First, Middle, Last) 1

SEX 2 ☐ M ☐ F

DATE OF DEATH (Month Day Year) 3

RACE (e.g., White, Black, Hispanic, American Indian, etc.) 4

AGE-Last Birthday 5a Years

UNDER 1 YEAR 5b Mos | Days |

UNDER 1 DAY 5c Hours | Mins |

DATE OF BIRTH (Month Day Year) 6

COUNTY OF DEATH 7a

INSIDE CITY OR VILLAGE LIMITS 7b ☐ Yes ☐ No

CITY, VILLAGE OR TOWNSHIP OF DEATH 7c

HOSPITAL OR OTHER INSTITUTION- Name (If none of these, give street and number) ☐ Hospital ☐ Nursing home ☐ Other Instit 7d

IF HOSP OR INST 7e ☐ DOA ☐ OP/Emer Rm ☐ Inpatient

STATE OF BIRTH (If not in U.S.A., name country) 8

CITIZEN OF WHAT COUNTRY 9

MARITAL STATUS 10 ☐ 1 Married ☐ 2 Separated ☐ 3 Divorced ☐ 4 Never Married ☐ 5 Widowed

SURVIVING SPOUSE (If wife, give maiden name) 11

WAS DECEDENT EVER IN U.S. ARMED FORCES? 12 ☐ Yes ☐ No

SOCIAL SECURITY NUMBER 13

USUAL OCCUPATION (Give kind of work done during most of working life, even if retired) 14a

KIND OF BUSINESS OR INDUSTRY 14b

RESIDENCE-STATE 15a

COUNTY 15b

CITY, VILLAGE OR TOWNSHIP OF RESIDENCE 15c

INSIDE CITY OR VILLAGE LIMITS 15d ☐ Yes ☐ No

STREET AND NUMBER 15e

PARENTS

FATHER-NAME (First, Middle, Last) 16

MOTHER-MAIDEN NAME (First, Middle, Last) 17

INFORMANT-NAME (Type or Print) 18a

MAILING ADDRESS (Street or R.F.D. No., City or Village, State, Zip) 18b

DISPOSITION

19a ☐ 1 Burial ☐ 2 Cremation ☐ 3 Entombment ☐ 4 Removal

CEMETERY OR CREMATORY NAME 19b

LOCATION (City or Village, State) 19c

FUNERAL SERVICE LICENSEE Or Person Acting As Such
Signature 20a ▶

NAME OF FACILITY 20b

Funeral Director Lic. No. 20c

ADDRESS OF FACILITY (Street or R.F.D. No., City or Village, State, Zip) 20d

DATE SIGNED BY FUNERAL SERVICE LICENSEE 20e

CERTIFICATION

To be Completed by CERTIFYING PHYSICIAN Only

21a. To the best of my knowledge, death occurred at the time, date and place and due to the cause(s) stated

Signature and Title ▶

DATE SIGNED (Month Day Year) 21b

HOUR OF DEATH 21c

NAME OF ATTENDING PHYSICIAN IF OTHER THAN CERTIFIER (Type or Print) 21d

To be Completed by MEDICAL EXAMINER or CORONER Only

22a. On the basis of examination and/or investigation, in my opinion death occurred at the time, date and place and due to the cause(s) stated.

Signature and Title ▶

DATE SIGNED (Month Day Year) 22b

HOUR OF DEATH 22c

PRONOUNCED DEAD (Month Day Year) 22d

PRONOUNCED DEAD (Hour) 22e

NAME AND ADDRESS OF CERTIFIER (PHYSICIAN, MEDICAL EXAMINER OR CORONER) (Type or Print) 23

CAUSE

25 PART I Conditions if any which gave rise to Immediate Cause stating the underlying cause last

IMMEDIATE CAUSE [ENTER ONLY ONE CAUSE PER LINE FOR (a), (b), AND (c)] | Interval between onset and death

(a)

DUE TO, OR AS A CONSEQUENCE OF: | Interval between onset and death

(b)

DUE TO, OR AS A CONSEQUENCE OF: | Interval between onset and death

(c)

PART II OTHER SIGNIFICANT CONDITIONS-Conditions contributing to death but not related to cause given in PART I (a)

AUTOPSY 26 ☐ Yes ☐ No

WAS MEDICAL EXAMINER OR CORONER NOTIFIED? 27 ☐ Yes ☐ No

INJURY

☐ 1 Accident ☐ 2 Suicide ☐ 3 Homicide ☐ 4 Undet ☐ 5 Pend Invest 28a

DATE OF INJURY (Month Day Year) 28b

HOUR OF INJURY 28c

DESCRIBE HOW INJURY OCCURRED 28d

INJURY AT WORK 28e ☐ Yes ☐ No

PLACE OF INJURY-At home, farm, street, factory, office building, etc. (Specify) 28f

LOCATION (Street or R.F.D. No., City or Village, State) 28g

Accident UCOD

National Safety Council Codes

REGISTRAR

24a Signature ▶

DATE RECEIVED BY REGISTRAR (Month Day Year) 24b

SAMPLE

Type or Print in Permanent Black Ink

DOH 5042
FORM NO. VS-18
Rev. 1-83
CHAPTER 69 Wis. Stats.

STATE OF WISCONSIN
DEPARTMENT OF HEALTH AND SOCIAL SERVICES

REPORT OF FETAL DEATH
FOR STATISTICAL PURPOSES ONLY

STATE FILING DATE

STATE NO.

DATE OF BIRTH (Month Day Year) 1.	HOUR 2. M.	SEX 3. ☐Male ☐Female	THIS BIRTH, Single, Twin, Triplet, Etc. 4a. (Specify)	IF NOT SINGLE BIRTH (Specify) Born First, Second, Etc. 4b.
HOSPITAL-NAME (If Not in Hospital, Give Street and Number or Location) 5a.	COUNTY OF BIRTH 5b.	NAME OF CITY OR VILLAGE (If Neither, Name Township) 5c.		INSIDE CITY OR VILLAGE LIMITS ☐Yes ☐No 5d.
MOTHER-NAME First Middle Last 6.	MAIDEN NAME			RESIDENCE-STATE 7a.
COUNTY 7b.	NAME OF CITY, VILLAGE (If Neither, Name Township) 7c.	INSIDE CITY OR VILLAGE LIMITS ☐Yes ☐No 7d.	AGE OF MOTHER 8a.	AGE OF HUSBAND 8b.

	RACE	EDUCATION* Elem/Second	EDUCATION* College	Employment One Year Ago: Occupation	Employment One Year Ago: Firm or Agency
HUSBAND	White, Black, Hispanic, American Indian, etc. 9.	(0-12) 10a.	(1-4 or 5 +)	10b.	10c.
MOTHER	White, Black, Hispanic, American Indian, etc. 12.	13a.		13b.	13c.

PREVIOUS DELIVERIES

LIVE BIRTHS (Exclude This Child)
Now Living 11a. Number ____ None ☐ | Now Dead 11b. Number ____ None ☐ | DATE OF LAST LIVE BIRTH Month Year 11c.

OTHER TERMINATIONS (Spontaneous or Induced)
Less Than 20 Weeks Gestation 14a. Number ____ None ☐ | 20 Weeks or More Gestation 14b. Number ____ None ☐ | DATE OF LAST OTHER TERMINATION Month Year 14c.

DATE LAST NORMAL MENSES BEGAN 16. Mo Day Year	MONTH OF PREGNANCY PRENATAL CARE BEGAN (month 1-9 of pregnancy; trimester not accepted) 16.	TOTAL NUMBER OF PRENATAL VISITS 17. Number ☐None	IS MOTHER MARRIED? ☐Yes ☐No 18.	BIRTHWEIGHT ____ Grams or ____ Lbs. ____ Oz. 19.

COMPLICATIONS OF PREGNANCY (Describe or write "None") 20.

CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY (Describe or write "None") 21.

COMPLICATIONS OF LABOR AND/OR DELIVERY (Describe or write "None") 22.

CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (Describe or write "None") 22.

TYPE OF DELIVERY (Not Including Episiotomy) 24.
☐0 Spontaneous
☐1 Breech
☐2 Manipulation without Instruments
☐3 Forceps, Low
☐4 Forceps, Mid and High
☐5 Other Surgical or Instrumental
☐6 Cesarean, Low Cervical
☐7 Cesarean, Classical
☐8 Cesarean, Other
☐9 Other, (Specify below)

Medical Codes
20
21
23
25
26

25 PART I FETAL DEATH WAS CAUSED BY — Enter Only One Cause Per Line For (A), (B), and (C)

Fetal or Maternal Condition Directly Causing Fetal Death Fetal and/or Maternal Conditions, If Any, Giving Rise to the Immediate Cause (A) Stating the Underlying Cause Last

	Fetal or Maternal Cause (State Which)
A. Immediate Cause:	
Due to, or as a B. Consequence of:	
Due to, or as a C. Consequence of:	

PART II OTHER SIGNIFICANT CONDITIONS of Fetus or Mother: Conditions Contributing To Fetal Death But Not Related to Cause Given in Part I (A)

FETUS DIED	During	AUTOPSY	PHYSICIAN'S ESTIMATE OF GESTATION
☐ Before Labor ☐ During Labor 26.	☐ Delivery ☐ Unknown	☐Yes ☐No 27.	28. Weeks

NAME OF PHYSICIAN OR ATTENDANT (Type or Print) 29.	SIGNATURE OF FUNERAL DIRECTOR OR OTHER PERSON COMPLETING REPORT 30.

FUNERAL HOME-NAME AND ADDRESS (Street or R.F.D. No. / City or Village / State / Zip) 31.

* 10a & 13a - Highest Grade Completed

NOTE: THIS FORM IS REQUIRED FOR ANY DELIVERY AFTER 20 WEEKS GESTATION IF DEATH IS INDICATED BY THE FACT THAT THE FETUS SHOWS NO EVIDENCE OF LIFE. THIS FORM IS NOT TO BE USED FOR INDUCED ABORTIONS.

SAMPLE

DOH 5060
Rev. 9-84
Chapter 765 Wis. Statutes

STATE OF WISCONSIN
DEPARTMENT OF HEALTH AND SOCIAL SERVICES

ORIGINAL CERTIFICATE OF MARRIAGE

STATE FILING DATE

STATE NO.

NOTE: THIS ORIGINAL CERTIFICATE, LEGIBLY AND COMPLETELY FILLED OUT, MUST BE RETURNED TO THE REGISTER OF DEEDS OF THE COUNTY OF MARRIAGE, WITHIN THREE DAYS FROM THE DATE OF MARRIAGE. MAXIMUM PENALTY FOR NONCOMPLIANCE, TWO HUNDRED DOLLARS ($200) OR THREE MONTHS IMPRISONMENT OR BOTH. (Wis. Statute 765.30 (4) (a))

Type or Print in Permanent Black Ink

LICENSE

GROOM-NAME First Middle Last — 1. | AGE — 2a. | DATE OF BIRTH Month Day Year — 2b.

PLACE OF RESIDENCE: STATE — 3a. | COUNTY — 3b. | CITY, VILLAGE, OR TOWNSHIP — 3c. | INSIDE CITY OR VILLAGE LIMITS ☐Yes ☐No — 3d. | STATE OF BIRTH (If NOT in USA Name Country) — 4.

FATHER-NAME — 6. | MOTHER-MAIDEN NAME — 7.

BRIDE-NAME First Middle Last — 8a. | MAIDEN NAME, if different — 8b. | AGE — 9a. | DATE OF BIRTH Month Day Year — 9b.

PLACE OF RESIDENCE: STATE — 10a. | COUNTY — 10b. | CITY, VILLAGE, OR TOWNSHIP — 10c. | INSIDE CITY OR VILLAGE LIMITS ☐Yes ☐No — 10d. | STATE OF BIRTH (If NOT in USA Name Country) — 11.

FATHER-NAME — 13. | MOTHER-MAIDEN NAME

CERTIFICATION

WE HEREBY CERTIFY THAT THE INFORMATION PROVIDED IS CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF AND THAT WE ARE FREE TO MARRY UNDER THE LAWS OF THIS STATE.

GROOM'S SIGNATURE — 15. ➤ | BRIDE'S SIGNATURE — 16. ➤

THE ISSUE OF THIS LICENSE SHALL NOT BE DEEMED TO REMOVE OR DISPENSE WITH ANY LEGAL DISABILITY, IMPEDIMENT OR PROHIBITION RENDERING MARRIAGE BETWEEN THE PARTIES ILLEGAL. THIS LICENSE IS VALID FOR 30 DAYS AFTER THE DATE ISSUED.

LICENSE NO. — 17. | DATE ISSUED: — 18. | ISSUED BY: SIGNATURE COUNTY CLERK — 19. ➤ | COUNTY — 20a. | PARENTAL CONSENT ON FILE (If required) ☐Yes ☐No — 20b.

DATE OF MARRIAGE: Month Day Year — 21a. | TYPE OF MARRIAGE (Religious or civil, specify) — 21b. | PLACE OF MARRIAGE (Name of Church, Civic Bldg, etc.) — 21c.

WHERE MARRIED-CITY, VILLAGE OR TOWNSHIP — 21d. | COUNTY — 21e.

PERSON PERFORMING CEREMONY: I certify that the above named persons were married before me on the above mentioned date. — 21g. Signature ➤ | TITLE — 21h. | MAILING ADDRESS and ZIP CODE — 21i.

WITNESS TO CEREMONY — 22a. Signature ➤ | WITNESS TO CEREMONY — 22b. Signature ➤

REGISTRAR Signature and Title — 23a. | DATE RECEIVED BY LOCAL REGISTRAR Month Day Year — 23b.

CONFIDENTIAL INFORMATION FOR STATISTICAL PURPOSES ONLY

RACE - GROOM	NUMBER OF THIS MARRIAGE	IF PREVIOUSLY MARRIED, LAST MARRIAGE ENDED BY		EDUCATION (Specify only highest grade completed)	
Specify (e.g., White, Black, Am. Indian, Hispanic, etc.)	Specify (First, second, etc.)	☐DEATH ☐DIVORCE ☐ANNULMENT	DATE (Mo., Day, Yr.)	Elementary or Secondary (0-12)	College (1-4 or 5+)
24.	25.	26a.	26b.	27.	

Groom's Race

RACE - BRIDE	NUMBER OF THIS MARRIAGE	IF PREVIOUSLY MARRIED, LAST MARRIAGE ENDED BY		EDUCATION (Specify only highest grade completed)	
Specify (e.g., White, Black, Am. Indian, Hispanic, etc.)	Specify (First, second, etc.)	☐DEATH ☐DIVORCE ☐ANNULMENT	DATE (Mo., Day, Yr.)	Elementary or Secondary (0-12)	College (1-4 or 5+)
28.	29.	30a.	30b.	31.	

Bride's Race

THIS ORIGINAL DOCUMENT MUST BE FORWARDED TO THE REGISTER OF DEEDS WITHIN 3 DAYS AFTER THE DATE OF MARRIAGE.

SAMPLE

TYPE OR PRINT IN PERMANENT BLACK INK

DOH-5080
FORM NO. VS 21
30M REV.-1-78

STATE FILING DATE

STATE OF WISCONSIN
DEPARTMENT OF HEALTH AND SOCIAL SERVICES

STATE NO.

ORIGINAL CERTIFICATE OF DIVORCE OR ANNULMENT

SAMPLE

COURT RECORD NUMBER

HUSBAND

HUSBAND NAME (First, Middle, Last) — 1a

RESIDENCE: STATE — 2a | COUNTY — 2b | CITY, VILLAGE, OR TOWNSHIP — 2c | INSIDE CITY OR VILLAGE LIMITS ☐Yes ☐No — 2d

MAILING ADDRESS — 2e | STATE OF BIRTH (If not in U.S.A., Name Country) — 3 | DATE OF BIRTH (Month, Day, Year) — 4a | AGE — 4b

Out of State Code

WIFE

WIFE NAME (First, Middle, Last) — 5a | MAIDEN NAME — 5b

RESIDENCE: STATE — 6a | COUNTY — 6b | CITY, VILLAGE, OR TOWNSHIP — 6c | INSIDE CITY OR VILLAGE LIMITS ☐Yes ☐No — 6d

Out of State Code

MAILING ADDRESS — 6e | STATE OF BIRTH (If not in U.S.A., Name Country) — 7 | DATE OF BIRTH (Month, Day, Year) — 8a | AGE — 8b

PLACE OF THIS MARRIAGE CITY — 9a | COUNTY — 9b | STATE (If not U.S.A., Name Country) — 9c | DATE OF THIS MARRIAGE (Mo., Day, Yr.) — 9d | DATE COUPLE SEPARATED (Mo., Day, Yr.) — 10

NUMBER OF CHILDREN EVER BORN ALIVE OF THIS MARRIAGE (Specify) — 11a | NUMBER OF CHILDREN UNDER 18 IN THIS FAMILY — 11b | PETITIONER HUSBAND, WIFE, BOTH, OTHER (Specify) — 12

ATTORNEY FOR PETITIONER NAME (Type or Print) — 13a | ADDRESS: STREET OR R F D NO — 13b | CITY OR TOWN | STATE | ZIP

DECREE

DATE OF DECREE (Month, Day, Year) — I certify that the marriage of the above named persons was dissolved on — 14a

TYPE OF DECREE (Specify) — ☐ DIVORCE ☐ ANNULMENT ☐ LEGAL SEPARATION — 14b

DECREE GRANTED TO — ☐ HUSBAND ☐ WIFE ☐ BOTH ☐ OTHER — 14c

COUNTY OF DECREE — 14e | COURT NAME — 14f

SIGNATURE OF CERTIFYING OFFICIAL — 14g ▶ | TITLE OF OFFICIAL — 14h

WIFE'S NEW NAME (If applicable) — 15.

CONFIDENTIAL INFORMATION FOR STATISTICAL PURPOSES ONLY

HUSBAND

RACE-HUSBAND	NUMBER OF THIS MARRIAGE	IF PREVIOUSLY MARRIED HOW MANY ENDED BY		EDUCATION (Specify only highest grade completed)	
Specify (e.g., White, Black, American Indian, Hispanic, etc.)	Specify (First, second, etc.)	DEATH?	DIVORCE, DISSOLUTION OR ANNULMENT?	Elementary or Secondary (0-12)	College (1-4 or 5+)
16.	17.	18a.	18b.	19.	

WIFE

RACE WIFE	NUMBER OF THIS MARRIAGE	IF PREVIOUSLY MARRIED HOW MANY ENDED BY		EDUCATION (Specify only highest grade completed)	
Specify (e.g., White, Black, American Indian, Hispanic, etc.)	Specify (First, second, etc.)	DEATH?	DIVORCE, DISSOLUTION OR ANNULMENT?	Elementary or Secondary (0-12)	College (1-4 or 5+)
20.	21.	22a.	22b.	23.	

QUALIFICATIONS AND LIMITATIONS OF THE DATA

Completeness of Registration: It is assumed that Wisconsin has relatively complete registration of vital events. The U.S. Bureau of Census assisted in a test of completeness of registration of births in connection with the 1950 census. Registration completeness was 99.6 percent of all births.

Although no evaluation of death registration has been completed, it is assumed that death registration is reasonably complete because death certificates are required in order to settle estates. Also, penalties assessed against funeral directors for not filing are severe.

Fetal death reporting requires reports for all fetuses of 20 weeks gestation and over or 350 grams or more in weight. No test for completeness of registration has been done. It is recognized, however, that fetal deaths are likely to be less well reported than other vital events.

Infant Death Data: Notification of infant death is obtained from the regular death certificate. However, much information relevant to the study of infant mortality is found on the birth certificate. Birth and death records have, therefore, been matched to produce a composite infant death tape, which is the source of Table 2.1. Certificates of birth or death from other states are included in the match. Discrepancies between birth and death certificates are minimal, usually involving fewer than ten deaths.

Geographic Classifications: In most tables, geographical classifications are limited to the county level. The term "urban" used in some summary tables refers to the sum of those incorporated places having a population of 2,500 or more according to the latest population estimates available from Demographic Services, Wisconsin Department of Administration. It should be noted that this does not correspond to the official Census Bureau usage since it excludes those portions of urbanized areas that are unincorporated and/or under 2,500 population. Similarly, "balance of county" should not be construed as "rural." Table 1.6 lists cities, towns and villages of 2,500 or more population. All others are summed in the "balance of county" category.

Events are assigned to geographical areas according either to place of residence or to place of occurrence. The basis for classification is identified in each table and should be carefully observed when extracting information.

The term "resident data" refers to events that have been assigned to the area where the person lives (usually legal residence) regardless of where the event occurred. In the case of infant deaths and births, the reference is to the residence of the mother. It should be noted that in the case of infant deaths, the place of residence at death may differ from the place of residence at birth. The published tables referring to infant death data are all based on residence at death.

The term "occurrence data" refers to tabulation according to where the events took place, regardless of the usual residence of the person. Since nearly all births and most deaths take place in hospitals, the number which occur in the six counties without hospitals is small. Likewise, the number of occurrences in counties with many hospitals will be large for this reason alone. The six Wisconsin counties in which no hospital is located are: Florence, Forest, Iron, Marquette, Menominee, and Pierce.

Comparability in Cause-of-Death Statistics: There are two major limitations in interpreting changes in cause-of-death statistics. Changes in diagnostic practice may affect the comparability of such statistics over time, as do changes in nomenclatures and classification schemes. The

International Classification of Diseases is revised approximately every ten years to incorporate advances in medical science and to reflect changing medical opinion and practice. In Wisconsin, the Sixth Revision was used from 1949-1957, the Seventh Revision from 1958-1967, the Eighth Revision from 1968-1978, and the Ninth Revision was adopted in 1979 and will be used until approximately 1993.

Mortality statistics in this report are thus based on the Ninth Revision. These data represent the underlying cause of death. The underlying cause is defined as "the disease or injury which initiated the train of morbid events, leading directly to death."[4] Prior to 1973, when two or more causes were jointly recorded, the coder in the Center for Health Statistics selected the underlying cause by using the ancillary information provided on the death certificate by the medical certifier, i.e., the attending physician, coroner or medical examiner. Beginning in 1973, however, all causes mentioned on the certificate are coded, and the underlying cause is determined using the Automated Classification of Medical Entities computer program developed by the National Center for Health Statistics.

The introduction of the concept of "underlying" cause in 1949 with the Sixth Revision resulted in a basic change in the classification of death that would seriously affect the interpretation of mortality trends before and after 1949. Comparability ratios based on the Fifth and Sixth Revisions were published by the National Center for Health Statistics.[5]

The Eighth Revision introduced some major modifications in classification lists and coding procedures that created a need for comparability ratios for some causes of death when comparisons are made before and after 1968. A study of this problem at the National Center for Health Statistics reveals many small discontinuities and several serious interpretation problems.[6] The Ninth Revision made further modifications in the classification lists and again created a need for comparability ratios for some causes of death when comparisons are made using 1979 or later data. In comparison, the following should be noted:

> For Diseases of the Heart, the Ninth Revision does not include all diseases of the circulatory system as did the Eighth.
>
> For Conditions Originating in the Perinatal Period, the Ninth Revision has been completely restructured to reflect the medical progress made in this area in recent years. The Ninth Revision provides much greater specificity.

Multiple Causes of Death (Tables 2.9a and 2.9b): A physician, coroner or medical examiner assigns the cause of death on the death certificate. Several related medical conditions may be listed. One is selected by the criteria established by the National Center for Health Statistics as the "underlying cause of death" (see Definitions on page 99).

The other listed causes can include not only etiological or pathological sequences that were due to or were a consequence of the underlying cause, but also any other significant condition which

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[4]International Classification of Diseases, Ninth Revision, 1977, vol. 1, p. 700.

[5]Vital Statistics-Special Report, vol. 51, no. 3.

[6]A. Joan Klebba, Comparability of Mortality Statistics for the 7th and 8th Revisions of the International Classification of Diseases, United States--DHEW Publication No. (HRA) 76-1340.

unfavorably influenced the course of the morbid process but was not directly related to the disease or condition causing death.

A death certificate will always contain the underlying cause of death. It may or may not list other causes. In reading these tables, it should be noted that "underlying cause" frequencies match the number of deaths (deceased persons). "Other listed causes" will not match the number of deaths because several non-underlying causes may be listed for one deceased person and none at all listed for another deceased person.

Small Frequencies: The numbers of births or deaths reported for a community represent complete counts of these events. As such, they are not subject to sampling error or variation, although they are subject to errors in the collection and processing procedures. However, when the figures are used for comparison of frequencies and rates over a time period, or for different areas, the number of events that actually occurred may be considered as one of a large series of possible results that could have arisen under the same circumstances. The probable range of values may be estimated from the actual figures according to certain statistical assumptions.[7]

[7]Vital Statistics for the U.S., 1959, vol. 1, pp. 1-20.

INTERNATIONAL CLASSIFICATION OF DISEASE (ICD)
COMPARABILITY OF 7TH, 8TH, AND 9TH REVISIONS

CAUSE OF DEATH	9TH REVISION (1979-PRESENT)	8TH REVISION (1968-1978)	7TH REVISION (1958-1967)
TUBERCULOSIS	010-019	010-019	001-019
RESPIRATORY TUBERCULOSIS	010-012	010-012	001-008
OTHER TUBERCULOSIS	013-018	013-019	010-019
SEPTICEMIA	038	038	053
OTHER INFECTIOUS AND PARASITIC			
MALIGNANT NEOPLASMS	140-208	140-209	140-205
LIP, ORAL CAVITY, PHARYNX	140-149	140-149	140-148
DIGESTIVE ORG. AND PERITONEUM	150-159	150-159	150-156A,157-159
RESPIRATORY AND INTRATHORACIC	160-165	160-163	160-164
BREAST	174-175	174	170
GENITAL ORGANS	179-187	180-187	171-179
URINARY ORGANS	188-189	188-189	180,181
OTHER AND UNSPEC SITES	170-173,190-199	170-173,190-199	156B,165,190-199
OTHER LYMPH. AND HEMATOP	200-203	200-203,208,209	200-203,205
LEUKEMIA	204-208	204-207	204
BENIGN AND UNCERTAIN NEOPLASMS	210-239	210-239	210-239
DIABETES MELLITUS	250	250	260
NUTRITIONAL DEFICIENCIES	260-269	260-269	280-289
ANEMIAS	280-285	280-285	290-293
MENINGITIS	320-322	320	340
MAJOR CARDIOVASCULAR DISEASE	391-448	391-448	330-334,401-468
HEART	391-398,402,404-429	391-398,402,404-429	401,402,410-443
RHEUMATIC FEVER	391-398	391-398	401,402,410-416
HYPERTENSIVE HEART DISEASE	402	402	440,441,443
HYP HEART AND RENAL DISEASE	404	404	442
ISCHEMIC HEART DISEASE	410-414	410-413	421,422
ACUTE MYOCARDIAL INFARCTION	410	410	-
OTHER ACUTE AND SUBACUTE	411	411	-
ANGINA PECTORIS	413	413	-
OTHER CHRONIC ISCHEMIC	412,414	412	-
OTHER ENDOCARDIAL DISEASES	424	424	421
OTHER HEART DISEASE	415-423,425-429	420-423,425-429	430-434
HYPERTENSION W/ OR W/O RENAL	401,403	400,401,403	444-447
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